# Joint Energy Trade Associations Meeting with EPA Region 6 Proposed GOM OCS NPDES Permit (GMG290000) September 29, 2022

### <u>Agenda</u>

#	Topic	Start	End
20000000000	Introductions	1:00	1:05
	Administrative Continuance	1:05	1:15
Тес	hnical Comments – Priority Items		
01	<ul> <li>TCW Toxicity</li> <li>Testing Not Appropriate         <ul> <li>48-hr Acute</li> <li>7-Day Chronic</li> <li>Critical Dilution Determination – Discharge Rate</li> </ul> </li> <li>Alternate Approaches         <ul> <li>48-hr Acute Monitoring Only</li> <li>Compliance Implementation</li> </ul> </li> <li>36 hr v. 72 hr Holding Times</li> <li>Alternate Test Procedures</li> </ul>	1:15	1:45
02	General Toxicity  Dilution Water Grab Samples & Timing of Samples Determine of Annual Frequency	1:45	2:00
03	Tracers	2:00	2:10
04	CWIS – Production	2:10	2:20
05	CWIS – Drilling	2:20	2:30
06	Sheens – 24 hr Reporting	2:30	2:40
07	<ul> <li>eNOIs</li> <li>Filing during administrative continuance</li> <li>Training</li> <li>Mergers/Acquisitions/Transfers</li> <li>Timeframes if system unavailable</li> </ul>	2:40	2:50
08	Permit Summary Table	2:50	2:55
	Wrap-Up	2:55	3:00
Oth	ner Technical Comments – Time Permitting		
09	Miscellaneous Discharges  Continuous v. non-continuous  Subsea Cleaning Fluids definition		
10	MSD		
11	STORET Codes / NODI Codes		
12	Statistical Procedures		
13	Other Changes		
14	Permit Supporting Documents		

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Toxicity  Part I.B.6.a.1.a 48-Hour Acute WE Limitation	Toxicity shall be assessed through a 48-hour acute Whole Effluent Toxicity (WET) test in accordance with Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms (EPA/821-R-02-012), or the most current edition. The acute test is to be conducted using Americamysis bahia (formerly Mysidopsis bahia as referred to in Method 2007.0 and 1007.0, and DMRs), and Menidia beryllina, Method 2006.0. The WET limit applies to both species. In order to be in compliance with the WET limit, the No Observable Effect Concentration (NOEC) must be equal to or greater than the critical dilution concentration specified in Appendix D, Table 1 (1-A through 1-F) of this permit. The critical dilution shall be determined using Table 1 in Appendix D of this permit and is based on the estimated flow rate when the discharge occurs, discharge pipe diameter, and water depth between the discharge pipe and the bottom. A WET test must be conducted per discharge, and the limit applies to every discharge.	The Joint Trades are recommending 3 options for EPA to consider regarding 48-Hour Acute WET Limitations for TCW fluids. Those options, in order of priority, are:  1. Removal of the limitations from the permit, or 2. Modify the limitation to a monitoring requirement and allow 1 sample to accommodate both 48-hour acute testing and 7-day chronic testing, or 3. Adding a compliance implementation period for the limitation and clarifying on how discharge rates are determined  Each option is discussed below.  1. Removal of the limitations from the permit  A 48-hour Acute WET limitation for TCW fluids is not appropriate and the Joint Trades strongly recommend that this requirement be removed from the permit.  The industry wide TCW fluid toxicity study forms the basis for this recommendation. The study concluded that several factors limit the potential for aquatic toxicity risks, including:  • TCW fluid discharges are typically of short duration. 75% of the discharges sampled during the study were less than 2 hours in duration (median discharge time was 1-hour). A 48-hour test exposure is extremely conservative is not representative of the behavior of these discharges in the marine environment.  • TCW fluid discharges are small volumes. TCW fluid discharges are estimated to be 0.01% of produced water discharge volumes.

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. opic			Of the substances evaluated during the study, no concentration was greater than conservative acute saltwater ecological thresholds.  TCW fluids do not pose an unreasonable risk to the aquatic environment,
			and additional WET testing does not provide any added environmental benefit. Implementation of WET testing requirements increases operational complexity and risk. Some of the operational considerations include:
			<ul> <li>Increases in onshore waste volumes from fluids that may no longer be discharged.</li> <li>Safety risks increase due to increased material handling and transfer of</li> </ul>
			<ul> <li>fluids.</li> <li>Potential for increased risk for human exposure pathways due to waste being disposed of onshore.</li> <li>Increases in GHG emissions due to increased vessel and ground</li> </ul>
			<ul> <li>transportation.</li> <li>Burden on lab operations, impacting lab capacities and availability for testing, increase in testing materials/equipment, and increase in consumption of animals/organisms during testing. Currently, there are only 2-3 laboratories on the Gulf Coast that are capable of performing this type of WET testing.</li> </ul>
			<ul> <li>Offshore operations have unique challenges in meeting WET test hold times. Experience from the industry-wide study shows that holding times required by the WET test method are extremely difficult and sometimes impossible to meet. Implementation of 48-hour WET testing for TCW fluids will result in added cost and burden to the regulated community in the form of "special order" flights and ground</li> </ul>
			<ul> <li>transportation.</li> <li>Implementation of 48-hour testing significantly increases compliance uncertainty. Most TCW fluid discharges will have concluded before the sample reaches the laboratory. In the event of a sample not meeting the toxicity limits there will be nothing for an operator to do to take</li> </ul>

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			corrective action (the discharge will be over). This uncertainty will likely
			result in many operators choosing not to discharge the fluids. In
			essence, EPA is establishing a "de facto" zero discharge limitation on
			these fluids.
			In addition, as noted the industry-wide study report, the critical dilutions
			listed in Appendix D Table are overly-conservative for assessing TCW fluid
			discharges. The industry-wide TCW fluid toxicity study concluded the
			following:
			"Recognizing that the median duration of the sampled TCW
			discharges was 1-h, a series of toxicity tests using a 2-h exposure
			was performed. These tests showed that toxicity for 2-h exposures
			was generally less than toxicity in 48-h exposure tests. This suggests
			that, since TCW discharges are of short duration, a comparison of a
			48-h NOEC with a critical effluent dilution (CD) as an indicator of
			potential acute toxicity has a high degree of conservatism."
			The conservative nature of existing Critical Dilution tables to TCW fluid
			discharges provides additional rationale for removing the WET testing
			requirements from the permit. TCW fluid discharges are not steady-state,
			continuous discharges. These discharges are intermittent, short duration
			and low volume discharges.
			In 2017 EPA acknowledged in their proposed permit's fact sheet that the
			number of available, experienced, and qualified laboratories for WET
			testing is limited. We agree with this statement. Given the number of TCW
			discharges that will require testing, the available laboratories cannot
			manage the volume of toxicity analyses that EPA is proposing for TCW fluids.
			This in turn could cause quality control issues. Laboratories only culture a
			limited number of test age organisms. Increasing the number of required
			tests in a short time frame is not possible. There are only 2-3 laboratories

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			that can perform testing on offshore oil and gas discharges. Inability to predict extended platform downtime periods (i.e., intermittent
			production), logistics issues for these specific monitoring and testing requirements, and weather (i.e., hurricanes and other tropical storms) can also be problematic with an increase in testing. Increasing required toxicity
			testing would not only increase the burden on the operator and the testing laboratories, but it will increase the operator's risk for additional missed
			samples resulting in administrative non-compliances.
			2. Modify the limitation to a monitoring requirement and allow 1 sample to accommodate both 48-hour acute testing and 7-day chronic testing
			If EPA disagrees that the 48-hour acute WET limitations for TCW fluids should be removed, then the Joint Trades recommend that EPA provide the
			rationale and change the 48-hour acute limitation to a 48-hour acute monitoring requirement. As discussed in section 1 above, the industry-wide study concluded that several factors limit the potential for aquatic toxicity risks, including:
			TCW fluid discharges are typically of short duration. 75% of the discharges sampled during the study were less than 2 hours in duration (median discharge time was 1-hour). A 48-hour test exposure is extremely conservative is not representative of the behavior of these discharges in the marine environment.
			<ul> <li>TCW fluid discharges are small volumes. TCW fluid discharges are estimated to be 0.01% of produced water discharge volumes.</li> </ul>
			Of the substances evaluated during the study, no concentration was greater than conservative acute saltwater ecological thresholds.
			TCW fluids do not pose an unreasonable risk to the aquatic environment.  However, data collection through additional monitoring could provide a
			mechanism to further validate these conclusions.

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			In addition, a monitoring requirement may also present an opportunity for
			EPA and industry to collaborate on developing a more appropriate test
			procedure that better represents how these fluids are introduced into the
			marine environment. A test of less than 48-hours in duration would be more
			representative and less conservative.
			representative and less conservative.
			Lastly, if 48-hour acute monitoring and 7-day chronic monitoring are
			included in the final permit, the Joint Trades recommend that EPA include
			language that clarifies that a single sample can be utilized to obtain both
			acute and chronic test results. It is more efficient, but still technically
			appropriate, for operators to capture one sample of a TCW discharge and
			set up a 7-day chronic WET test. The 48-hour acute results can be obtained
			on Day 2 of the 7-day test. Therefore, the Joint Trades recommend the
			following language be added to the final permit:
			Tollowing language be added to the ilital permit.
			A single grab or composite sample may be obtained to satisfy both
			the 48-hour acute and 7-day chronic monitoring. 48-hour acute test
			results may be obtained from the 7-day chronic test procedure.
			results may be obtained from the F day emone test procedure.
			3. Adding a compliance implementation period for the limitation and
			clarifying how discharge rates are determined
			clainying now discharge rates are determined
			Finally, if 48 acute WET testing for TCW fluids is included in the final permit,
			it is imperative that a compliance implementation period be included to
			allow operators time to establish procedures, processes and resources to
			achieve compliance. The Joint Trades strongly recommend that EPA
			establish a schedule of compliance for implementation of the new
			requirements as outlined in 40 CFR 122.47. Offshore facilities subject to
			these new requirements may require capital upgrades (e.g., fabrication /
			installation of diffusers or seawater dilution systems) making immediate
			compliance with the new requirements impossible. Accordingly, should EPA
			compliance with the new requirements impossible. Accordingly, should EPA

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			require 48-hour WET testing, the Joint Trades request EPA include a
			compliance schedule of two years for permittees to determine how to
			implement the new requirement. The Joint Trades propose the following
			language be added to this section of the permit:
			Compliance with 48-hour Acute WET testing must be achieved within
			two years of the effective date of the permit.
			two years of the effective date of the permit.
			This type of compliance implementation period would allow the regulated
			community to:
			Train operational personnel on the new requirements,
			Establish logistical plans and schedules to meet required holding times,
			Identify the impacts to industry laboratories to determine what
			additional resources are needed to accommodate the new testing,
			Allow for fabrication and installation of diffuser and/or seawater
			dilution systems if needed.
			Allow for constructing, contracting, and/or acquisition of additional
			vessels capable of compliantly managing materials for disposal
			Identify and plan for onshore disposal facility capacities and limitations
			and expansions as needed.
			In addition, the operational considerations listed above, a compliance
			implementation period will also allow the regulated community to seek
			alternative test procedures, if needed, under 40 CFR 136.5. During the
			industry-wide TCW fluids study, we learned that certain fluids may require
			additional stirring and be allowed to return to room temperature in order
			for the WET testing procedure to be executed. As noted in several other
			comments in this document, the Joint Trades strongly recommend EPA
			allow the regulated community to seek approval for alternative test
			procedures, if needed. A two-year implementation period will allow
			sufficient time for industry to determine if such procedures are needed,

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			how test methods need to be modified and seek approval from EPA under
			the requirements of 40 CFR 136.5.
			EPA granted a similar compliance implementation period for produced
			water chronic WET testing during the 2007 permit renewal. EPA included
			language in the 2007 permit that said:
			Compliance with sub-lethal effects must be achieved within two years
			after the effective date of this permit.
			The Joint Trades strongly encourage EPA to consider this type of
			implementation schedule for these requirements as well.
			Also, if the 48-hour acute testing limitations are included in the final permit,
			the Joint Trades recommend that EPA also add language that clarifies how
			flow rate used to determine critical dilutions is determined. As described
			above, most TCW fluid discharges are less than 2 hours in duration and are
			not continuous discharges. Therefore, it is important to explain how flow
			rate is estimated to determine the proper critical dilution. The flow rates in Appendix D Table 1 are listed in units of bbls/day. If a discharge lasts 24
			hours or longer then the flow rate should be calculated using total volume
			discharged/number of days of discharge duration. However, if the discharge
			is less than 24 hours in duration the flow rate should be estimated as total
			volume discharged/1 day to provide a realistic estimate of the rate
			discharge during the 24 hour period. The following recommended language
			is proposed for consideration:
			1
			The critical dilution shall be determined using Table 1 in Appendix D of
			this permit and is based on the estimated flow rate when the discharge
			occurs, discharge pipe diameter, and water depth between the
			discharge pipe and the bottom. Flow rate shall be determined as
			follows:

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			<ul> <li>For discharges greater than 24 hours in duration, flow rate=total volume discharged (bbls)/total duration of discharge (days)</li> <li>For discharges of lasting 24 hours or less, flow rate=total volume discharged (bbls)/1 day</li> </ul>
			A WET test must be conducted per discharge, and the limit applies to every discharge.
			EPA has stated in the draft Fact Sheet accompanying this proposed permit that:
			"46% of the samples collected showed acute toxicity for one or more species indicating there is a reasonable potential for acute toxicity stemming from well treatment, completion and workover fluid discharge."
			However, if the actual volume discharged is used to determine the critical dilution for those discharges lasting less than 24 hours, then 25 of the 28 (89%) samples analyzed did not exhibit acute toxicity at the critical dilution. During the industry-wide TCW study estimated flow rates were calculated using the total volume discharged divided by discharge duration to determine an hourly discharge rate. When this hourly rate is extrapolated to a 24-hour day the estimated discharge rate is conservatively overestimated.
			For example, if 100 barrels of fluid are discharged in 1 hour, the discharge rate is 100 barrels/hour. Extrapolated to a "barrel per day" rate value, one could estimate a daily rate of 2400 barrels/day. However, this is not representative of what was actually discharged. 100 barrels was discharged

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			in 1 hour and the discharge ceased, therefore, a more representative estimate of actual discharge rate is 100 barrels/day.
			This illustrates the importance of clearly defining how discharge rates are used to determine critical dilution, especially if EPA proceeds with these requirements as a compliance limitation. This type of approach, use of the total volume discharged for discharges lasting less than 24 hours, is consistent with how discharge rates are estimated for other short duration discharges authorized by the permit.
01 – TCW Toxicity	Part I.B.6.a.1.b	One composite sample representing the duration of the discharge, must be collected, and used in the initiation and renewal of the 48-hour test. The time composite sample must contain no fewer than 3 aliquots spaced out at constant time intervals throughout the compositing period. In order to assess compliance	A 48-hour Acute WET Limitation for TCW fluids is not appropriate and the Joint Trades recommend that this requirement be removed from the permit.
		with the WET limit, no alternate test procedures are authorized, and the test must be conducted in accordance with the method.	However, if the 48-hour WET testing requirements are finalized the use of 3 aliquots spaced out at constant time intervals in not feasible. As discussed above, the majority of TCW fluid discharges are less than 2 hours in duration. Capturing 3 aliquots from such short duration discharges does not provide any benefit to the testing methodology. During the industry-wide study, 4 of 28 discharges had durations longer than 4 hours. The remaining 24 discharges had a combined duration of 22.5 hours.
			The Joint Trades recommend revising the proposed text as follows:
			One grab or one composite sample representing the duration of the discharge, must be collected, and used in the initiation and renewal of the 48-hour test. The time composite sample must contain no fewer than 3 aliquots spaced out at constant time intervals throughout the compositing period. In order to assess compliance with the WET limit, no alternate test procedures are authorized, and the test must be conducted in accordance with the method.

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			Rationale: EPA has not provided a justification for grab samples not being representative of the discharge. Increasing the volume of samples through composite sampling introduces additional operational complexity; most notably increased weight for transport on helicopters. Larger sample
			volumes will also increase the amount of laboratory waste for disposal. Increasing waste volumes is in conflict with the regulated community's sustainability principles to reduce wastes as much a practical.
			As an alternative, if EPA does not accept continuing to allow single grab samples for testing, the Joint Trades recommend that EPA adopt the following sampling methodology:
			<ul> <li>Discharges 24 hours of less in duration: 1 grab sample is required.</li> <li>Discharges more than 24 hours in duration: 3 aliquots are required captured at evenly space time intervals over a 24 hour period or less.</li> </ul>
			It is also important for EPA to include language in the permit that clarifies when sample holding times begin. Adding the following statement to the permit would provide additional clarification:
			As described in the National Pollutant Discharge Elimination System (NPDES) Compliance Inspection Manual, time of sample collection (holding time) begins when the last aliquot is dispensed into the composite sample container.
			Source: https://www.epa.gov/sites/default/files/2017- 03/documents/npdesinspect-chapter-05.pdf
			As well, the Joint Trades believe that the phrase "no alternative test procedures are authorized" contradicts existing EPA regulations and should be removed from the permit.

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			"Any person may request the Regional ATP Coordinator to approve the use of an alternate test procedure in the Region."
			By pre-emptively stating that no alternate test procedures are authorized in the permit language, EPA is effectively removing the ability of the regulated community to avail itself of the procedures in 40 CFR 136.5, and thereby, contradicting EPA's regulations for NPDES permits.
			Removing the regulated community's ability to apply for alternate test procedures for the offshore oil and gas sector in the OCS General Permit puts the offshore oil and gas sector at a disadvantage compared to other industries and potentially creates unfair advantages for other industries.
01 – TCW Toxicity	Part I.B.6.a.2.a 7-day	Toxicity shall be assessed through a 7-day chronic WET test in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms (EPA/821-R-02-014), or the	The Joint Trades are recommending 2 options for EPA to consider regarding 7-day chronic WET Limitations for TCW fluids. Those options are:
	Chronic WET Monitoring	most current edition. The chronic test is to be conducted using <i>Americamysis bahia</i> (formerly <i>Mysidopsis bahia</i> as referred to in Method 2007.0 and 1007.0, and DMRs), and <i>Menidia beryllina</i> , Method 1006.0. In order to pass a chronic test, the No Observable Effect Concentration (NOEC) must be equal to or greater than the critical dilution concentration specified in Appendix D, Table 1 (1-A	<ol> <li>Removal of the monitoring requirements from the permit, or</li> <li>Adding a compliance implementation period for the monitoring and include a minimum discharge duration of 4 days that require monitoring.</li> </ol>
		through 1-F) of this permit. The critical dilution shall be determined using Table 1 in Appendix D of this permit and is based on the estimated flow rate when the	Each option is discussed below.
		discharge occurs, discharge pipe diameter, and water depth between the discharge pipe and the bottom. A chronic WET test must be conducted per	1. Removal of the monitoring requirements from the permit
		discharge.	As discussed under the Joint Trades comments on 48-hour acute testing, most TCW fluid discharges are short duration, intermittent and low volume. The nature of these discharges brings into question the appropriateness of acute WET testing. The nature of these discharges certainly makes 7-day

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			chronic testing unnecessary and not representative of how these discharges interact with the marine environment. Chronic testing is simply not appropriate for these types of discharges.
			In addition, chronic testing was not part of the industry-wide TCW fluids study. There is no evidence to support inclusion of chronic testing as a permit requirement. By including chronic testing in the permit EPA would be adding additional burden to the regulated community that is not based on scientific evidence. It is also an unnecessary use of vertebrate test organisms. Wherever possible the EPA should reduce, refine, and replace all vertebrate testing for ethical reasons especially considering the industry-wide TCW fluids study found invertebrate test ( <i>Americamysis bahia</i> ) on average more sensitive than the vertebrate test ( <i>Menidia beryllina</i> ).
			2. Adding a compliance implementation period for the limitation and include a minimum discharge duration of 4 days that requires monitoring
			As discussed under the 48-hour acute testing limitations above, if 7-day chronic WET testing for TCW fluids is included in the final permit, it is imperative that a compliance implementation period be included to allow operators time to establish procedures, processes and resources to implement the monitoring. The Joint Trades strongly recommend that EPA provide justification of this monitoring requirement and establish a schedule of compliance for implementation of the new requirements as outlined in 40 CFR 122.47. The Joint Trades propose the following language be added to this section of the permit:
			Compliance with 7-day chronic WET monitoring requirements must be achieved within two years of the effective date of the permit.
			In addition, a compliance implementation period will also allow the regulated community to seek alternative test procedures, if needed, under

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			40 CFR 136.5. During the industry-wide TCW fluids study, we learned that
			certain fluids may require additional stirring and be allowed to return to
			room temperature in order for the WET testing procedure to be executed.
			As noted in several other comments in this document, the Joint Trades
			strongly recommend EPA allow the regulated community to seek approval
			for alternative test procedures, if needed. A two-year implementation
			period will allow sufficient time for industry to determine if such procedures
			are needed, how test methods need to be modified and seek approval from
			EPA under the requirements of 40 CFR 136.5.
			EPA granted a similar compliance implementation period for produced
			water chronic WET testing during the 2007 permit renewal. EPA included
			language in the 2007 permit that said:
			Compliance with sub-lethal effects must be achieved within two years
			after the effective date of this permit.
			after the effective date of this perime.
			The Joint Trades strongly encourage EPA to consider this type of
			implementation schedule for these requirements as well.
			The Joint Trades also recommend that EPA also add language that clarifies
			a minimum duration of discharge that the 7-day monitoring would apply to
			During the industry-wide study, only 4 of the 28 operations sampled had
			discharge durations longer than 38 hours. The remaining 24 operations had
			discharge durations of less than 2 hours. Applying 7-day chronic testing to
			discharges of less than 2 hours is inappropriate and misrepresents any
			potential environmental risks from these discharges. Therefore, we
			recommend that EPA include the following statement in the final permit if
			7-day chronic monitoring is retained:
			Toxicity shall be assessed through a 7-day chronic WET test in
			accordance with Short-term Methods for Estimating the Chronic

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			Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms (EPA/821-R-02-014), or the most current edition. The 7-day chronic WET test shall only apply to those discharges lasting longer than 4 days in duration.
			Lastly, if 48-hour acute monitoring and 7-day chronic monitoring are included in the final permit, the Joint Trades recommend that EPA include language that clarifies that a single sample can be utilized to obtain both acute and chronic test results. It is more efficient, but still technically appropriate for operators to capture one sample of a TCW discharge and set up a 7-day chronic WET test. The 48-hour acute results can be obtained on Day 2 of the 7-day test. Therefore, the Joint Trades recommend the following language be added to the final permit:
			A single grab or composite sample may be obtained to satisfy both the 48-hour acute and 7-day chronic monitoring. 48-hour acute test results may be obtained from the 7-day chronic test procedure.
01 – TCW Toxicity	Part I.B.6.a.2.b	Three (3) samples are to be collected for the chronic test. The samples may be collected as grab samples spaced out at constant time intervals throughout the duration of the discharge. Each sample must meet the holding time of 36 hours (up to 72 if required) for first use of the sample, and then the samples may be used to prepare renewals until test completion. In order to assess toxicity, no alternate test procedures are authorized, and the test must be conducted in	As discussed in the previous comment, 7-Day Chronic WET testing monitoring requirements should be removed from the permit. However, if the 7-day chronic testing monitoring requirements are retained in the final permit, the monitoring should only be applicable to discharge durations of 4 days or more.
		accordance with the method.	If the 7-day chronic testing monitoring requirements are included in the final permit, the Joint Trades recommend modifying the proposed language in this paragraph as follows:
			Three (3) samples are to be collected for the chronic test. The samples may be collected as grab samples spaced out at constant time intervals throughout the duration of the discharge. Each sample must meet the holding time of 36-hours (up to 72 hours if required) for first use of the sample, and then the samples may be used to prepare renewals until

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			test completion. In order to assess toxicity, no alternate test procedures are authorized, and the test must be conducted in accordance with the method.
			The highlighted language regarding holding times is unclear. Is the holding time 36 hours or 72 hours? EPA should clarify this sentence so that it is clear as to the intent. Furthermore, the hold time for TCW samples should be adjusted to the maximum of 72 hours. A 36-hour hold-time will introduce significant logistical complexity to well workover, completion, and treatment operations by creating the need for operators to have multiple vessels and flights dedicated to sample transportation only. The increased number of vessel and helicopter trips between offshore facilities and shore will increase emissions, noise, and other environmental impacts. They will also increase safety risks associated with landing/takeoff, vessel transport and transfer of samples. These risks will be more acute given a 36-hour time constraint. The requirement for additional flights/vessel trips will also increase costs, as operators compete for scarce supply of helicopters and fast vessels. Lastly, the competition for helicopters and fast vessels will result in project delays, which will further increase costs and result in
			additional environmental impacts.  The Joint Trades also recommend that the phrase "no alternative test procedures are authorized" be struck as it contradicts existing EPA regulations.
			40 CFR 136.5 contains regulations for "Approval of alternate test procedures for limited use." Paragraph (a) of 40 CFR 136.5 clearly states that:
			"Any person may request the Regional ATP Coordinator to approve the use of an alternate test procedure in the Region."

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			By pre-emptively stating that no alternate test procedures are authorized
			in the permit language, EPA is effectively removing the ability of the
			regulated community to avail itself of the procedures in 40 CFR 136.5, and
			thereby, contradicting EPA's regulations for NPDES permits.
			Removing the regulated community's ability to apply for alternate test
			procedures for the offshore oil and gas sector in the OCS General Permit
			puts the offshore oil and gas sector at a disadvantage compared to other
			industries and potentially creates unfair advantages for other industries.
01 – TCW	Part I.B.6.c	Operators must conduct well treatment fluids, well completion fluids, and	The Joint Trades recommend the characteristic assessment requirements
Toxicity		workover fluids assessments whenever they apply those fluids. Such	be removed from the permit.
		assessments shall be conducted for each applicable well by operators either	
		corporately or individually. The general information of a specific well treatment,	Rationale: The Characteristic Assessment requirements retained from the
		well completion or workover fluid could be used for assessment purposes. Each	2017 permit were intended to apply to the industry-wide TCW fluid toxicity
		fluid assessment shall include the following information:	study, or individual studies for those operators that chose not to participate
			in the industry study. Now that the studies have concluded, these
		1) Lease and block number	characteristic assessment requirements are not appropriate for routine,
		2) API well number	normal operations and should be removed from the 2022 permit. This type
		3) Type of well treatment or workover operation conducted	of detailed information is maintained by operators in well files and could be
		4) Date of discharge	made available to EPA upon request.
		5) Time discharge commenced	
		6) Duration of discharge	In addition, these requirements may create the risk of operators providing
		7) Volume of well treatment	proprietary and/or trade secret information on well campaigns. This
		8) Volume of completion or workover fluids used	information is nearly always kept confidential. Experience with the industry-
		9) The common names and chemical parameters for all additives to the fluids	wide TCW study showed that trades secrets are a significant issue with
		10) The volume of each additive	regards to TCW campaigns. During the study, extraordinary measures were
		11) Concentration of all additives in the well treatment	taken to ensure that trade secrets and proprietary information were
		12) Concentration of all additives in the completion, or workover fluid	protected. This included procedures to limit chemical analysis of fluid
			components to mitigate the risk of revealing proprietary information.
01 – TCW	Part I.D.3	The approved test methods for permit compliance are identified in 40 CFR Part	The Joint Trades believe that the sentence "No alternative test procedures
Toxicity		136. No alternative test procedures are authorized.	are allowed" contradicts existing EPA regulations and should be removed
			from the permit.

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			40 CFR 136.5 contains regulations for "Approval of alternate test procedures for limited use." Paragraph (a) of 40 CFR 136.5 clearly states that:
			"Any person may request the Regional ATP Coordinator to approve the use of an alternate test procedure in the Region."
			By pre-emptively stating that no alternate test procedures are authorized in the permit language, EPA is effectively removing the ability of the regulated community to avail itself of the procedures in 40 CFR 136.5, and thereby, contradicting EPA's regulations for NPDES permits.
			Removing the regulated community's ability to apply for alternate test procedures for the offshore oil and gas sector in the OCS General Permit puts the offshore oil and gas sector at a disadvantage compared to other industries and potentially creates unfair advantages for other industries.
01 – TCW Toxicity	Part I.D.4	The approved test methods for permit compliance are identified in 40 CFR Part 136. No alternative test procedures are authorized.	The Joint Trades believe that the sentence "No alternative test procedures are allowed" contradicts existing EPA regulations and should be removed from the permit.
			40 CFR 136.5 contains regulations for "Approval of alternate test procedures for limited use." Paragraph (a) of 40 CFR 136.5 clearly states that:
			"Any person may request the Regional ATP Coordinator to approve the use of an alternate test procedure in the Region."
			By pre-emptively stating that no alternate test procedures are authorized in the permit language, EPA is effectively removing the ability of the regulated community to avail itself of the procedures in 40 CFR 136.5, and thereby, contradicting EPA's regulations for NPDES permits.

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					Removing the regulated community's ability to apply for alternate test procedures for the offshore oil and gas sector in the OCS General Permit puts the offshore oil and gas sector at a disadvantage compared to other industries and potentially creates unfair advantages for other industries.
01 – TCW Toxicity	Part I.D.4.f	Test Acceptability Criteria  The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:			The Joint Trades recommend that some of the values listed in the Test Acceptability Criteria table be changed to align with WET testing protocols and methods.  For both species, we recommend the following changes:
		Condition/Criteria	Americamysis bahia	Menidia beryllina	<ul> <li># of replicates per concentration should be 5; not 2.</li> </ul>
		# of replicates per concentration	2	2	<ul> <li># of organisms per replicate should be 8; not 10.</li> <li># of organisms per concentration should be 40; not 20.</li> </ul>
		# of organisms per replicate	10	10	# of organisms per concentration should be 40, not 20.
		# or organisms per concentration	20	20	NOEC values cannot be achieved with less than 4 replicates.
		# of test concentrations per effluent	5 and a control	5 and a control	
02 –	Part	One composite sample rep	presenting the duratio	n of the discharge, must be	The Joint Trades recommend revising the proposed text as follows:
General Toxicity	I.B.11.a	1	ntain no fewer than 3 al	of the 48-hour test. The time iquots spaced out at constant	One grab, or one composite, sample representing the duration of the discharge, must be collected, and used in the initiation and renewal of the 48-hour test. The time composite sample must contain no fewer than 3 aliquots spaced out at constant time intervals throughout the compositing period.
					Rationale: EPA has not provided a justification for grab samples not being representative of the discharge. Increasing the volume of samples through composite sampling introduces additional operational complexity; most notably increased weight for transport on helicopters. Larger sample volumes will also increase the amount of laboratory waste for disposal.

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			Increasing waste volumes is in conflict with the regulated community's
			sustainability principles to reduce wastes as much a practical.
			As an alternative, if EPA does not accept continuing to allow single grab
			samples for testing, the Joint Trades recommend that EPA adopt the
			following sampling methodology:
			,
			Discharges 24 hours of less in duration: 1 grab sample is required.
			Discharges more than 24 hours in duration: 3 aliquots are required
			captured at evenly space time intervals over a 24 hour period or less.
			It is also important for EPA to include language in the permit that clarifies
			when sample holding times begin. Adding the following statement to the
			permit would provide additional clarification:
			As described in the National Pollutant Discharge Elimination System
			(NPDES) Compliance Inspection Manual, time of sample collection
			(holding time) begins when the last aliquot is dispensed into the composite sample container.
			composite sample container.
			Source: https://www.epa.gov/sites/default/files/2017-
			03/documents/npdesinspect-chapter-05.pdf
02 –	Part I.B.4.a	Toxicity. Toxicity shall be assessed through a 7-day chronic Whole Effluent	The Joint Trades recommend EPA continue to use the language contained
General		Toxicity (WET) test in accordance with Short Term Methods for Estimating the	in the 2017 permit:
Toxicity		Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine	
		Organisms (EPA/821-R-02- 014), or the most current edition. In order to be in	The critical dilution shall be determined using Table 1 in Appendix D of
		compliance with a WET limit, the No Observable Effect Concentration (NOEC)	this permit and is based on the highest monthly average discharge rate
		must be equal to or greater than the critical dilution concentration specified in	for the three months prior to the month in which the test sample is
		Appendix D, Table 1 (1-A through 1-F) of this permit. The critical dilution to be	collected, discharge pipe diameter, and water depth between the
		used for each calendar year shall be determined during the month of December	discharge pipe and the bottom.
		using Table 1 in Appendix D of this permit and is based on the highest estimated	
		monthly flow rate recorded during the previous 12-months, discharge pipe	

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		diameter, and water depth between the discharge pipe and the bottom.	Alternatively, if EPA has rationale for discharge rate to be moved from three
			months prior to calendar year prior; the Joint Trades request revisions to
		The critical dilution shall be calculated when this permit becomes effective, using	the proposed permit language:
		the previous 12 months, until recalculated in December and every end of	
		calendar year thereafter.	The critical dilution to be used for each calendar year <del>shall be</del>
			determined during the month of December using Table 1 in Appendix
			D of this permit and is based on the highest estimated monthly flow
			rate recorded during the previous calendar year <del>12-months</del> , discharge
			pipe diameter, and water depth between the discharge pipe and the
			bottom.
			The critical dilution shall be calculated when this permit becomes
			effective, using the previous calendar year. <del>12 months, until</del>
			recalculated in December and every end of calendar year thereafter.
			Rationale: The Joint Trades are requesting rationale from EPA for discharge
			rate to be moved from three months prior to calendar year prior. If
			language is moved to calendar year, the Joint Trades are requesting the
			language change to this section of the permit to provide clarity. Replacing
			"12 months" with calendar year will prevent operators from making varying
			interpretations and will help answer the following questions: Did EPA intend
			for a calendar year or rolling 12-month period from month sampled? If this
			is to be done in December, does the Operator include December since the
			month is not complete?
02-	Part I.B.4.b	Toxicity. Flow must be analyzed at the end of each calendar year (December).	The Joint Trades recommend maintaining the language contained in the
General	. 4.6 1.5.4.6	The flow used to determine the frequency of toxicity testing for the following	2017 permit:
Toxicity		calendar year shall be the highest estimated monthly flow rate recorded during	2017 permit
Contenty		the previous 12-months. The required frequency of testing shall be determined	Toxicity. The flow used to determine the frequency of toxicity testing shall
		as follows:	be the highest monthly average flow for the three months prior to the
		43 10110 1431	month in which the test sample is collected.
		Discharge Rate Toxicity Testing Frequency	month in winth the test sumple is conected.
		0 - 4,599 bbl/day once per calendar year	

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		4,600 bbl/day and above once per calendar quarter	Alternatively, if EPA has rationale for discharge rate to be moved from three months prior to calendar year prior, the Joint Trades request revisions to the proposed permit language:
			Toxicity. Flow must be analyzed at the end of each calendar year (December). The flow used to determine the frequency of toxicity testing for the following calendar year shall be the highest estimated monthly flow rate recorded during the previous calendar year 12-months. The required frequency of testing shall be determined as follows:
			Rationale: The Joint Trades are requesting rationale from EPA for discharge rate to be moved from three months prior to calendar year prior. If language is moved to calendar year, the Joint Trades are requesting the language change in this section of the permit to provide clarity. Replacing "12 months" with calendar year will prevent operators from making varying interpretations and will help answer the following questions: Did EPA intend for a calendar year or rolling 12-month period from month sampled? If this is to be done in December, does the Operator include December since the month is not complete?
02 – General Toxicity	Part I.B.4.b	New discharges must perform initial toxicity tests as required by this permit within three months after discharge begins and continue on the appropriate calendar quarter or calendar year based on the highest monthly flow rate available.	The Joint Trades recommend revising the permit text as follows:  New discharges must perform initial toxicity tests as required by this permit within three months after discharge begins and continue on the appropriate calendar quarter or calendar year based on the highest monthly discharge rate available.
			Rationale: Adding the word "discharge" as noted above provides additional clarity.
02 – General Toxicity	Part I.B.4.b	Existing dischargers under the 2017 permit shall commence testing schedules in the 2022 permit as of the effective day of this permit. If the permittee qualified to monitor produced water toxicity at the reduced frequency of once per year	The Joint Trades offer the following suggested revisions to the proposed permit language:

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-		under the 2017 permit, the required monitoring frequency shall remain at once per year as long as the discharge is compliant with the toxicity limits. Results of testing for any overlapping monitoring period that were done during the previous permit may also be used to satisfy that monitoring period under the 2022 permit. Flow rate for the purpose of determining the frequency of testing and critical dilution of the next calendar year shall be analyzed in the month of December following issuance of this permit.	Results of testing for any overlapping monitoring period that were done during the previous permit may also be used to satisfy that monitoring period under the 2022 permit. Flow rate for the purpose of determining the frequency of testing and critical dilution of the next calendar year shall be analyzed in the month of December following issuance of this permit.
			Rationale: If the permittee qualified to monitor produced water toxicity at the reduced frequency of once per year under the 2017 permit, the required monitoring frequency should remain at once per year as long as the discharge is compliant with the toxicity limits. Determining toxicity testing frequency for new discharges or existing discharges on a reduced monitoring period is covered in those respective sections of the permit. The Joint Trades are requesting to remove duplicate information from this section.
02 – General Toxicity	Part I.B.4.b	A minimum of three (3) samples shall be collected as grabs or composites. Test Acceptability Criteria and reporting requirements can be found in Part I.D.3 of this permit.	The Joint Trades recommend revising the proposed text as follows:  A minimum of three (3) Samples shall be collected as grabs or composites. Test Acceptability Criteria and reporting requirements can be found in Part I.D.3 of this permit.
			Rationale: EPA has not provided a justification for proposing that a "minimum of three samples" is necessary. Increasing the number of samples and, by default, the volume of samples introduces additional operational complexity; most notably increased weight for transport on helicopters. Larger sample volumes will also increase the amount of laboratory waste for disposal. Increasing waste volumes is in conflict with the regulated community's sustainability principles to reduce wastes as much a practical.

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			As an alternative, if EPA does not accept continuing to allow single grab samples for testing, the Joint Trades recommend that EPA adopt the following sampling methodology:
			<ul> <li>Discharges 24 hours or less in duration: 1 grab sample is required.</li> <li>Discharges more than 24 hours in duration: 3 aliquots are required captured at evenly space time intervals over a 24 hour period or less.</li> </ul>
			It is also important for EPA to include language in the permit that clarifies when sample holding times begin. Adding the following statement to the permit would provide additional clarification:
			As described in the National Pollutant Discharge Elimination System (NPDES) Compliance Inspection Manual, time of sample collection (holding time) begins when the last aliquot is dispensed into the composite sample container.
			Source: https://www.epa.gov/sites/default/files/2017- 03/documents/npdesinspect-chapter-05.pdf
02 – General Toxicity	Part I.D.3.1	The testing frequency is assessed at the end of every calendar year and established for the following year. However, monthly reporting of toxicity data is required regardless of the testing frequency. This is to allow a space in the DMR to report data under a fluctuating frequency. If a test is not conducted every month, then the permittee must report "NODI 9" for toxicity data.	The Joint Trades recommend the following changes to the proposed permit language to improve clarity. In addition, we recommend removing the references to NODI codes from the permit as this type of language is better suited for DMR instructions instead of permit language.
			The testing frequency is assessed at the end of every calendar year and established for the following year. However, Monthly reporting of toxicity data is required regardless of the testing frequency. This is to allow a space in the DMR to report data under a fluctuating frequency. If a test is not conducted every month, then the permittee must report "NODI 9" for toxicity data.

Agenda Topic	Section	2022 Pr	oposed Permit La	anguage	Joint Trades Comments
02 – General Toxicity	General	The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test		rements defined in the te	For <i>Menidia beryllina</i> , we recommend the following changes:
		Condition/Criteria	Americamysis bahia	Menidia beryllina	<ul> <li># of replicates per concentration should be 5; not 4.</li> </ul>
		Test Duration	7 days	7 days	# of organisms per replicate should be 8; not 10.
		# of replicates per concentration	8	4	# of organisms per replicate should be 0, not 10.
		# of organisms per replicate	5	10	In addition, to align with our recommendations on TCW fluids 48-hour
		# or organisms per concentration	40	40	acute WET testing, Sample Requirements for both Americamysis bahia and
		# of test concentrations per effluent	5 and a control	5 and a control	Menidia beryllina should be modified to:
		Holding time * Sampling Requirement *	36 hours for first use Minimum of 3 samples	36 hours for first use Minimum of 3 samples	
		Test Acceptability Criteria	280% survival of all control organisms.  Average dry weight per surviving organism in control 20.2mg.	280% survival of all control organisms.  Average dry weight per surviving unpreserved organism in the control must	1 grab sample for discharges of 24 hours or less, or 3 aliquots at evenly spaced time intervals over a 24-hour period for discharges greater than 24-hours in duration.
				be ≥0.5mg when test starts with 7d old larvae, or, ≥0.43mg or greater after no more than 7days if preserved.	The rationale for this recommendation is discussed above in previous comments.
		Coefficient of Variation**	40% or less, unless significant effects are exhibited.	40% or less, unless significant effects are exhibited.	Regarding PMSD Limits: PMSD limits are protective of the environment and
		Percent Minimum Significant Difference (PMSD range) for Sublethal Endpoint **	11 - 37	11 - 28	permittees. Upper PMSD limits prevent highly variable data that decreases the power of the required statistical methods from being used to demonstrate permit compliance. Lower PMSD limits prevent data sets with
		* If the flow from the outfal effluent samples, the requirer and the minimum number of period. However, the perm volume during the period of di toxicity tests with daily rene between collection and first	nents for the minimu effluent portions are ittee must collect all ischarge that is sufficwal of effluent, and	m number of effluent sample waived during that sampling effluent composite samp sient to complete the require must meet the holding tin	very low variability, hyper-sensitive data sets, from failing. If the PMSD for a sub-lethal data set is less than the lower PMSD limit and the required statistical methods indicate a statistically significant difference between the control and a treatment, this difference must be confirmed by calculating relative differences between the control and each treatment.  Growth data are based on biomass: dry weight of survivors from each

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		samples used for the toxicity tests shall be collected on separate days. The	surviving. Any mortalities exacerbate sublethal biomass variability. If the
		effluent composite sample collection duration and the static renewal protocol	replicate dry weight is for one surviving organism, it must be divided by the
		associated with the abbreviated sample collection must be documented in the	number originally exposed! If a treatment fails survival it is excluded from
		full report required in Item 3 of this section.	sub-lethal data analyses. If the survival and growth data are near perfect
			and clearly passing except at the highest concentration tested (low survival
		**Test failure may not be construed or reported as invalid due to a coefficient	and high variability between replicates), the required statistical methods
		of variation value of greater than 40%, or a PMSD value greater than the higher	(Steel's Many-One Rank Test in particular) may not pick up >40% mortality
		value on the range provided.	as statistically significant. This can lead to the upper biomass PMSD limit
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	being exceeded and an invalid test, even though the lower sample dilutions
			are statistically equivalent in survival and biomass to the concurrent
			control.
			Control
			Including the 2017 permit language for chronic tests could prevent
			resampling and retesting clearly passing data sets:
			If the conditions of Total Assembly History was to the conditions and
			If the conditions of Test Acceptability are met in Item 3.f. above and
			the percent survival of the test organism is equal to or greater than
			80% in the critical dilution concentration and all lower dilution
			concentrations, the survival test shall be considered to be passing and
			the permittee shall report a survival NOEC of not less than the critical
			dilution for the DMR reporting requirements found below.
			And adding similar language for sublethal biomass data:
			If the conditions of Test Acceptability are met in Item 3.f. except that
			the PMSD upper limit is exceeded, then if the mean dry weight of
			surviving control organisms is equal to or greater than the limit in the
			test method, and the biomass data for the critical dilution and all lower
			dilutions are not more than the PMSD lower limit (11% for both
			species) less than the concurrent control, the growth test shall be
			considered to be passing and the permittee shall report a growth NOEC

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			of not less than the critical dilution for the DMR reporting requirements found below.
02 –	Part I.D.3.h	Dilution Water	The Joint Trades strongly recommend removing the requirements for the
General		Dilution water used in the toxicity tests shall be receiving water collected as close	use of receiving waters as dilution water for the purposes of WET testing.
Toxicity		to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar salinity closest to	There are several technical and operational reasons for concern.
		the point of discharge if the receiving water shows toxicity and fails to meet acceptability criteria for the control.	1. WET Testing Methods Recommendations
			EPA's Methods for Measuring the Acute Toxicity of Effluents and Receiving
			Waters to Freshwater and Marine Organisms, Fifth Edition contains the
			following recommendations regarding types of dilution water,
			"7.1.1.1 If the objective of the test is to estimate the absolute acute
			toxicity of the effluent, a synthetic (standard) dilution water is used."
			As well as,
			"7.1.2 An acceptable dilution water is one which is appropriate for the
			objectives of the test; supports adequate performance of the test organisms with respect to survival, growth, reproduction, or other
			responses that may be measured in the test (i.e., consistently meets test
			acceptability criteria for control responses); is consistent in quality; and
			does not contain contaminants that could produce toxicity."
			does not contain containments that could produce toxicity.
			Method 1007.0: Mysid, Mysidopsis bahia, Survival, Growth and Fecundity
			Test: Chronic Toxicity contains the following requirement,
			lasti amama rasitat, aantama tira ranaming raquinamiani,
			"14.6.11.1 Saline test and dilution water The salinity of the test water
			must be in the range of 20% to 30%."
			Gulf of Mexico receiving waters mean annual sea-surface salinity ranges
			from 33% to greater than 36% as shown in the figure below from

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•			Vinogradov, S., The use of ocean tomographic observations in numeric simulation of mesoscale oceanic circulation in the northern Gulf of Mexico, 2005.
			25° COS NO. 25° CO
			Gulf of Mexico receiving waters are higher than the recommended salinities in Method 1007.0 and therefore may not "support adequate performance of the test organisms with respect to survival, growth, reproduction, or other responses that may be measured in the test."
			2. Impractically of Capturing Receiving Water Samples
			The proposed permit language states that "Dilution water used in the toxicity tests shall be receiving water collected as close to the point of discharge as possible but unaffected by the discharge." It is unclear how

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			operators are to determine if the receiving water collection point is
			unaffected by the discharge. The requirement is vague and ambiguous.
			In addition, capturing samples of receiving water for use as dilution water would potentially require the launching and operation of small fast rescue craft from the platform. Most platforms do not have such craft available or installed. Launching of such craft requires lower the vessel 150-200 feet via
			cables to the water's surface with people on board. This is a high risk activity
			that is conducted only when it is absolutely necessary (i.e., responding to an emergency). This requirement to use receiving water as dilution water increases the risks and hazards to offshore personnel.
			If receiving water was collected for use as dilution water, approximately 40 gallons would be needed per test. That would require transport of more than 320 lbs. of water, ice and containers.
			Additional helicopter flights would be required as well as additional ground transport. As noted in other comments contained in this document, increased transportation results in significantly higher greenhouse gas emissions, higher costs to the regulated community and additional burden in the form of increased scheduling and planning.
			The use of synthetic dilution water eliminates all of these concerns and provides a practical, sound alternative to the use of receiving water.
			3. Synthetic Dilution Water Has a Proven History
			Synthetic dilution water has been used for Gulf of Mexico dilution water since the inception of the General Permit. There are decades of data that provide ample evidence that synthetic dilution water is appropriate for WET testing. If EPA has identified concerns or issues with the historical use of synthetic dilution water based upon this historical data, then that

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			information should be shared with the regulated community and the public to justify the need for this proposed change.
			Based on the rationale discussed in items 1-3, the Joint Trades recommend that this proposed paragraph be removed from the permit.
02 – General Toxicity	Part I.D.4.f	* If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples and the minimum number of effluent portions are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent, and must meet the holding	The Joint Trades recommend that the following sentence be removed from the permit:  When possible, the effluent samples used for the toxicity tests shall be collected on separate days.
		time between collection and first use of the sample.  When possible, the effluent samples used for the toxicity tests shall be collected on separate days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 3 of this section.	<ul> <li>Rationale: Collection of samples on separate days creates unnecessary burden on the regulated community, including:</li> <li>Increase difficulty in meeting required holding times leading to "special order" flights and ground transportation.</li> <li>Safety risks increase due to increased material handling and additional helicopter flights.</li> <li>Increased air pollutants and GHG emissions due to increased vessel and ground transportation.</li> </ul>
02 – General Toxicity	Part I.D.4.h	Dilution Water Dilution water used in the toxicity tests shall be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar salinity closest to the point of discharge if the receiving water shows toxicity and fails to meet acceptability criteria for the control.	Comments made above regarding dilution water are repeated here.  The Joint Trades strongly recommend removing the requirements for the use of receiving waters as dilution water for the purposes of WET testing. There are several technical and operational reasons for concern.  1. WET Testing Methods Recommendations  EPA's Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition contains the following recommendations regarding types of dilution water,

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		"7.1.1.1 If the objective of the test is to estimate the absolute acute
		toxicity of the effluent, a synthetic (standard) dilution water is used."
		As well as,
		"7.1.2 An acceptable dilution water is one which is appropriate for the objectives of the test; supports adequate performance of the test organisms with respect to survival, growth, reproduction, or other responses that may be measured in the test (i.e., consistently meets test acceptability criteria for control responses); is consistent in quality; and does not contain contaminants that could produce toxicity."
		Method 1007.0: Mysid, Mysidopsis bahia, Survival, Growth and Fecundity Test: Chronic Toxicity contains the following requirement,
		"14.6.11.1 Saline test and dilution water The salinity of the test water must be in the range of 20% to 30%."
		Gulf of Mexico receiving waters mean annual sea-surface salinity ranges from 33‰ to greater than 36‰ as shown in the figure below from Vinogradov, S., The use of ocean tomographic observations in numeric simulation of mesoscale oceanic circulation in the northern Gulf of Mexico, 2005.

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			영화 전 경험 전 경
			Gulf of Mexico receiving waters are higher than the recommended salinities in Method 1007.0 and therefore may not "support adequate performance of the test organisms with respect to survival, growth, reproduction, or other responses that may be measured in the test."
			2. Impractically of Capturing Receiving Water Samples
			The proposed permit language states that "Dilution water used in the toxicity tests shall be receiving water collected as close to the point of discharge as possible but unaffected by the discharge." It is unclear how operators are to determine if the receiving water collection point is unaffected by the discharge. The requirement is vague and ambiguous.
			In addition, capturing samples of receiving water for use as dilution water would potentially require the launching and operation of small fast rescue

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			craft from the platform. Most platforms do not have such craft available or
			installed. Launching of such craft requires lower the vessel 150-200 ft via
			cables to the water's surface with people on board. This is a high risk activity
			that is conducted only when it is absolutely necessary (i.e., responding to
			an emergency). This requirement to use receiving water as dilution water
			increases the risks and hazards to offshore personnel.
			If receiving water was collected for use as dilution water, approximately 40
			gallons would be needed per test. That would require transport of more
			than 320 lbs. of water, ice and containers.
			than 520 lbs. of water, ice and containers.
			Additional helicopter flights would be required as well as additional ground
			transport. As noted in other comments contained in this document,
			increased transportation results in higher greenhouse gas emissions, higher
			costs to the regulated community and additional burden in the form of
			increased scheduling and planning.
			increased screeding and planning.
			The use of synthetic dilution water eliminates all of these concerns and
			provides a practical, sound alternative to the use of receiving water.
			3. Synthetic Dilution Water Has a Proven History
			Synthetic dilution water has been used for Gulf of Mexico dilution water
			since the inception of the General Permit. There are decades of data that
			provide ample evidence that synthetic dilution water is appropriate for WET
			testing. If EPA has identified concerns or issues with the historical use of
			synthetic dilution water based upon this historical data, then that
			information should be shared with the regulated community and the public
			to justify the need for this proposed change.
			to justify the freed for this proposed change.
			Broad and the makes the discount of the second of the seco
			Based on the rationale discussed in items 1-3, the Joint Trades recommend
			that this proposed paragraph be removed from the permit.

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03 -	Part I.A.1.b	Limitations on Coverage: The following are not authorized under this permit:	The Joint Trades recommend moving this paragraph to Part I.C Other
Tracers		i) Discharges not described under Parts I.B.1-13	Discharge Limitations. The suggested revisions are as follows:
		<ul> <li>ii) This general permit does not authorize discharges, including spills or leaks, caused by failures of equipment, blowout, damage of facility, or any form of unexpected discharge.</li> </ul>	Section C. Other Discharge Limitations
		iii) Historic Properties: Facilities which adversely affect properties listed or	8. Discharges not described under Parts I.B.1-13
		eligible for listing in the National Register of Historic Places are not	9. This general permit does not authorize discharges, including
		authorized to discharge under this permit.	spills or leaks, caused by failures of equipment, blowout,
		iv) Radioactive Materials Under the Jurisdiction of the Nuclear Regulatory	damage of facility, or any form of unexpected discharge.
		Commission (NRC): Discharge of radioactive materials under the	10. Historic Properties: Facilities which adversely affect properties
		jurisdiction of the NRC are not independently authorized by this permit.	listed or eligible for listing in the National Register of Historic
		Permittees must obtain separate authorization from NRC in order to	Places are not authorized to discharge under this permit.
		include radioactive materials under the jurisdiction of the NRC in	11. Radioactive Materials Under the Jurisdiction of the Nuclear
		discharges authorized by this permit or for any other disposal of such	Regulatory Commission (NRC): Discharge of radioactive
		materials.	materials under the jurisdiction of the NRC are not
			independently authorized by this permit. Permittees must
			obtain separate authorization from NRC in order to include
			radioactive materials under the jurisdiction of the NRC in discharges authorized by this permit or for any other disposal of
			such materials.
			sach materials.
			Rationale: Part I.C is the part of the permit where general discharge
			limitations and prohibitions are described. The limitations described in this
			proposed section are better aligned for inclusion in Part I.C.
			In addition, the Joint Trades are offering additional comments on item iv)
			radioactive tracers (see next comment).
03 -	Part	iv)Radioactive Materials Under the Jurisdiction of the Nuclear Regulatory	The Joint Trades agree with EPA that nothing in this permit shall be
Tracers	I.A.1.b.iv	Commission (NRC): Discharge of radioactive materials under the jurisdiction	construed to circumvent any applicable requirements imposed by the
		of the NRC are not independently authorized by this permit. Permittees must	Nuclear Regulatory Commission (NRC) for the discharge of radioactive
		obtain separate authorization from NRC in order to include radioactive	materials under the Atomic Energy Act. See 42 U.S.C. § 2012; see also 40
		materials under the jurisdiction of the NRC in discharges authorized by this	CFR § 122.2 (excluding radioactive materials regulated under the Atomic

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		permit or for any other disposal of such materials.	Energy Act from the definition of "pollutant."). However, the language of the draft permit relating to radioactive materials under the jurisdiction of
			the Nuclear Regulatory Commission (NRC) could be interpreted as
			prohibiting all discharges of radioactive materials absent an explicit grant of authorization to the operator from the NRC. Accordingly, the Joint Trades
			recommend adding the following language to clarify that the NRC require
			NRC licensees to obtain authorization.
			Radioactive Materials Under the Jurisdiction of the Nuclear
			Regulatory Commission (NRC) not authorized for discharge under an NRC License (if required): Discharge of radioactive materials under
			the jurisdiction of the NRC are not independently authorized by this
			permit. NRC licensees Permittees must obtain separate authorization from NRC, if required, in order to include radioactive
			materials under the jurisdiction of the NRC in discharges authorized
			by this permit <del>or for any other disposal of such materials.</del> Compliance
			with this limitation must be achieved within two years after the effective date of this permit.
			This is important as third-party vendors hold the NRC license for use of
			radioactive tracers, not the operators. The Joint Trades are committed to
			working with these vendors to understand what steps, if any, need to be taken for NRC to authorize discharges of radioactive materials.
			taken for the to authorize disenarges of radioactive materials.
			The Joint Trades further note that EPA's past consideration of radioactive
			tracers weighs strongly against an outright prohibition against their discharge. For example, EPA "examined [radioactive tracer discharges] in
			the process of issuing National Effluent Limitations Guidelines and in our
			permit development." See Attachment B Letter from S. Wilson dated August 19, 2003 for more information. EPA's current proposal to prohibit
			the discharge presents no information to counter their own 2003
			determination. (See also Avanti Corporation, Ocean Discharge Criteria

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-			Evaluation for the NPDES General Permit for the Western Gulf of Mexico
			OCS, EPA Contract No. 68-C9-0009 Work Assignment S-4-49(P), Task 161,
			prepared for USEPA Region 6, Dallas TX Dated August 9, 1993.)
			In preparation for the 2012 Permit Renewal, EPA proposed language
			requiring radioactive tracers to be separated from TCW and Produced
			Water discharges and sent to shore for disposal. In a letter from OOC to Mr.
			Isaac Chen, EPA Region 6 Permit Writer, dated December 15, 2011, OOC
			provided comments to strike the proposed language. As explained in this
			, , , , , , , , , , , , , , , , , , , ,
			letter, excerpts of which are provided below, it would be prohibitively
			expensive and time consuming to filter these tracers from produced water,
			an undertaking not justified given the trivial levels of tracers present in the
			produced water. Mr. Chen agreed and the proposed language was not
			included in the final Permit, effectively approving discharge of radioactive
			tracers.
			EPA again considered and approved discharge of radioactive tracers in the
			2017 NPDES Permit. Specifically, during the 2017 permit renewal process,
			the OOC requested that EPA add the following language, underlined and in
			red, to the Miscellaneous Discharge section: "Mud, Cuttings, and Cement
			(including tracers) at the seafloor." OOC explained its rationale for this
			request as follows:
			Being able to identify top of cement (TOC) behind a wellbore casing
			can sometimes be challenging given current (acoustic) cement
			evaluation logging technology. By being able to run tracers
			detectable by logging tools, the technical limits of acoustic logging
			tools are bypassed, thus allowing the operator another option that
			may more clearly identify TOC and ensure the cemented casing
			meets technical and HSE requirements for the well. The tracer in
			question would be a very small quantity (~ 1 mCi) of Sc-46
			embedded in inert beads suspended in a gel (~1 cup by volume total),

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			placed in the first 50 bbls of cement pumped (and so may extrude to sea floor for top hole casings). Sc-46 decays by beta emission (with detectable gamma), with a half-life of ~84 days (so effectively gone after 5 half-lives or 420 days). The beads will not float or disperse, rather we expect they will be encapsulated into the cement slurry as it solidifies (over 12-24 hours at the sea floor). Sc-46 beta emissions travel distance in water is estimated at 0.11 cm. The tenth thickness in concrete for the gamma emissions is 16 cm. Given these small distances, along with short half-life and cement encapsulation, we would not expect significant ecological risk from this tracer.
			EPA accepted OOC's proposed language and added it to the current permit, which reads "Muds, Cuttings, and Cement (including cement tracer) at the Seafloor."
			The radioactive tracers used in fracturing are the same as used in cementing, discussed above. They are tiny beads, similar in size to a proppant grain, which are injected to the slurry stream at a very low concentration while pumping the frac. The primary reason that radioactive tracers are added to the frac slurry is to confirm the presence of an annular pack of proppant around the screens. Frac height confirmation is a secondary benefit of the tracers in sand control wells. In wells requiring sand control—which include most Gulf of Mexico wells—the proppant pack around the screens acts as an additional filter preventing sand production and protecting the integrity of the screens, tubulars and facilities. Without a complete proppant pack in place around the screens, the screens can quickly erode compromising screen integrity. The sand and proppant produced after the screens are compromised erode tubulars and facility piping. It can also foul the safety valve and subsea tree valves making them non-functional. Thus, the use of radioactive tracers in the frac slurry is important to the integrity and safety of the well.

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-			Given the above—i.e., EPA's prior determinations, the proppant's small
			size, the viscous matrix used to convey the proppant, and the expected
			trivial loss to produced water due to the well bore screen—USEPA should
			not prohibit discharge of insignificant levels of radioactive tracers. Should
			EPA intend to prohibit discharge of radioactive tracers, OOC requests:
			EPA demonstrate a cost/benefit analysis for requiring a prohibition
			of the discharge of radioactive tracers.
			2. OOC proposes the following language be added to this section of
			the permit: "Compliance with this limitation must be achieved
			within two years after the effective date of this permit."
			Additional background information:
			Radioactive Tracers in Proppants Background (edited from OOC letter to
			Mr. Isaac Chen dated December 15, 2011):
			Propping agents are like grains of sand in size (< 600 microns
			typically). Proppants or solids introduced into a gravel pack or
			fracture job are not themselves radioactive. Proppants are generally
			man made and composed of ceramic material. Occasionally a gravel
			pack may be tagged with a weak radioactive isotope in order to
			determine what the extent of the fracture height is. This isotope is
			added to the main portion of the fluid which may or may not contain
			proppant [OOC realizes that the August 1, 2011, submittal to EPA
			was not clear on how trace radioactive materials were added to the
			proppant- the fluid is dosed with the tracer; radioactive material is
			not physically added into the proppant grains.]. For well completion
			applications the base fluid is viscosified with an organic
			biodegradable polymer and a chemically inert propping agent which
			is incorporated at varying concentrations. This slurry is pumped
			down the work string and hydraulically forced into the production
			zone. Any excess slurry is reversed out of the work string and
			returned to the surface. Pending a passing static sheen and oil and
			grease test, the slurry is discharged (if it does not contain priority

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-			pollutants above trace amounts). Once placed in the formation, the
			proppants will be retained therein by the well screen. This screen is
			of critical importance for sand control (to prevent excess erosion of
			piping which could result in a loss of hydrocarbon containment). The
			only proppant that is discharged is proppant which remains in the
			work string (tubing used to channel the proppant slurry to the
			formation face). As noted above this mixture is a very viscous gel
			(highly cross-linked). Because of this, separation of the proppant
			from this well fluid is not feasible without extensive or time-
			consuming treatment.
			This prohibition could also impact produced water discharges.
			Proppants may be returned with produced water. As discussed
			above, proppant application is into the formation, and prevented
			from return with the oil/gas by use of screens across the producing
			zones. As such, proppant levels in produced water will be trivial. Data
			from one major operator indicates that produced water discharged
			overboard contain relatively low volumes (approximately 25ppm) of
			solids with an average (D50) particle size of 25 micron based on
			limited sampling at a major platform in the Gulf. The Effluent
			Guidelines (Table IX-12) indicates solids loading on the order of
			13.38-74.72 ug/l. Filtration of produced waters just prior to
			overboard discharge would require installation of suitable pumping
			capacity and elevated deck sections to accommodate the additional
			equipment and space for operator intervention and maintenance.
			Existing assets lack open deck space to accommodate this
			equipment. Filtration of produced water can be very problematic
			given oil has a "stickiness" property which would bridge over in time
			the filter screens requiring a solvent wash or steam cleaning. An
			initial estimate to filter a 10,000 bwpd produced water stream to <
			600 micron solids was made. The cost for engineering, filtration and
			pumping equipment would be on the order of \$750,000 [2011

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ТОРІС			estimate]. The cost for structural steel and offshore installation may require as much as 5000-man hours and cost an estimated \$4 million dollars [2011 estimate]. It is estimated to take 24 weeks to procure the required equipment. Additional time would be required for conducting the engineering on the facility to address weight, space and safety classification issues. Assuming this cost, given there are approximately 800 platforms [2011 estimate] discharging produce water, this yields a total industry cost of approximately \$3,800,000,000 [2011 estimate]. Finally, the solids recovered from the filtration system would have to be disposed onshore.  The above is a rough estimate made in the limited time available. However, it does indicate that addition of filtration equipment to produced water streams is a significant undertaking in the offshore environment. As such, OOC feels it is difficult to justify such systems given the small chance some proppant grains/radioactive tracer particles are returned with the produced fluids. OOC notes that sand loss control is a critical design concern for a well as sand can erode piping and valves and result in loss of containment of the hydrocarbons. As such, great care is taken to ensure even fine grain sands/solids do not exit the formation. Certainly, very fine solids can and do come out and up into the topsides equipment.; However, weight and space limitations make the addition of solids separating equipment quite challenging.
04 – CWIS Productio n	Part I.B.12.c.1).i i	Velocity monitoring. The operator must monitor intake flow velocity across the intake screens on a continuous basis to ensure the maximum intake flow velocity does not exceed 0.5 ft/s. The intake flow velocity shall be monitored according to the following frequencies:  If the Most recent intake Then Monitoring Frequency flow velocity (ft/s)  Should be  <0.300 Quarterly  0.300 – 0.38 Monthly	The Joint Trades propose to strike "on a continuous basis" as it directly conflicts with the below monitoring frequencies.  iii. Velocity monitoring. The operator must monitor intake flow velocity across the intake screens on a continuous basis to ensure the maximum intake flow velocity does not exceed 0.5 ft/s. The intake flow velocity shall be monitored according to the following frequencies:

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•		>0.38 Daily	If the Most recent intake Then Monitoring Frequency flow velocity (ft/s) Should be <0.300 Quarterly 0.300 – 0.38 Monthly >0.38 Daily
			Rationale: The Joint Trades request all intake flow velocity monitoring proposed as "continuous" be struck. Continuous intake flow velocity monitoring would require possibly significant upgrades to existing intake flow velocity monitoring systems including routing of signals to process computers for automatic logging. Monitoring frequencies in the table allow permittees to manually log the intake flow velocity if continuous monitoring systems are not feasible.
			EPA agreed with this request in their Response to Comments for the 2012 GMG290000 permit renewal, "OOC requested that EPA change the flow monitoring frequency from continuous to daily because continuous monitoring may require significant upgrades to the existing flow system.
			Response: EPA has revised the permit language. Daily monitoring frequency will be used for flow monitoring. EPA has also changed the frequency for screen monitoring to daily based on the same reason for changing flow monitoring."
			EPA again agreed with this request in the 2017 GMG290000 permit renewal when they included the tiered monitoring frequencies in the current permit and did not include continuous intake flow velocity monitoring.
			2017 Rationale: Velocity monitoring consists of a demonstration requirement based on the facilities' proposed design and a compliance monitoring requirement that verifies the velocity limitation is being met. There is agreement with the purpose of inspection, but not the frequency.

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			The tiered velocity monitoring approach is based upon a statistical analysis
			of six separate CWIS operated in the GOM during 2015. The analysis is based
			on the rate-of-change in daily velocity monitoring data (attached as
			Appendix D). An ANOVA indicates no statistical difference in the rate of
			change in intake velocity among the five intakes (P < 0.05). The data are
			approximately normally distributed with a mean change in velocity equal to
			0.0001 (ft/s)/day and a standard deviation equal to 0.0106 (ft/s)/day. Based
			on these data, there is a 95% probability that the mean velocity increase
			over any 30-day period will be less than 0.11 (ft/s)/day; and a 95%
			probability that the mean velocity increase over any 90-day period will be
			less than 0.20 (ft/s)/day. Therefore, 95% of all monthly intake velocity
			measurements will be less than 0.5 ft/s provided that the previous month's
			velocity measurement was less than 0.39 ft/s. Similarly, 95% of all quarterly
			velocity measurements will be less than 0.5 ft/s provided that the previous
			quarter's measurement was less than 0.30 ft/s.
			quarter of measurement was reso than 1000 rg s.
			We note this data makes some valative to visual inspection information
			We note this data makes sense relative to visual inspection information
			presented elsewhere the rate of biogrowth on intakes is quite low and so
			the rate of change of intake velocity would also be expected to be quite low,
			hence allowing for reduced monitoring frequencies (using a tiered approach
			to ensure compliance with the 0.5 fps standard for any CWIS design).
			Related to this issue, EPA must allow for the fact that some affected
			facilities have been constructed between July 2006 and October 2022 with
			intake flow velocity monitoring designs based on initial and
			quarterly/monthly/daily flow monitoring. These facilities may require
			capital upgrades to reach a continuous intake flow velocity monitoring
			capability.
			Should EPA require continuous monitoring, The Joint Trades propose the
			following language be added to this section of the permit:

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				Compliance with continuous intake flow velocity monitoring must be
				achieved within two years after the effective date of this permit.
04 – CWIS Productio n	Part I.B.12.c.2).i ii	intake screens on a continuously does not exceed 0.5	rator must monitor intake flow velocity across the uous basis to ensure the maximum intake flow of the transfer of the transfer in the transfer of the transfer in the transfe	The Joint Trades propose to strike "on a continuous basis" as it directly conflicts with the below monitoring frequencies.
		according to the following free  If the Most recent intake flow velocity (ft/s) <0.300  0.300 – 0.38  >0.38	Then Monitoring Frequency Should be Quarterly Monthly Daily	iv. Velocity monitoring. The operator must monitor intake flow velocity across the intake screens on a continuous basis to ensure the maximum intake flow velocity does not exceed 0.5 ft/s. The intake flow velocity shall be monitored according to the following frequencies:  If the Most recent intake Then Monitoring Frequency flow velocity (ft/s) Should be  <0.300 Quarterly  0.300 — 0.38 Monthly  >0.38 Daily  Rationale: The Joint Trades request all intake flow velocity monitoring proposed as "continuous" be struck. Continuous intake flow velocity monitoring would require possibly significant upgrades to existing intake flow velocity monitoring systems including routing of signals to process computers for automatic logging. Monitoring frequencies in the table allow permittees to manually log the intake flow velocity if continuous monitoring systems are not feasible.
				EPA agreed with this request in their Response to Comments for the 201 GMG290000 permit renewal, "OOC requested that EPA change the flow monitoring frequency from continuous to daily because continuous monitoring may require significant upgrades to the existing flow system.
				Response: EPA has revised the permit language. Daily monitoring frequency will be used for flow monitoring. EPA has also changed the frequency for

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			screen monitoring to daily based on the same reason for changing flow
			monitoring."
			EPA again agreed with this request in the 2017 GMG290000 permit renewal
			when they included the tiered monitoring frequencies in the current permit
			and did not include continuous intake flow velocity monitoring.
			2017 Rationale: Velocity monitoring consists of a demonstration
			requirement based on the facilities' proposed design and a compliance
			monitoring requirement that verifies the velocity limitation is being met.
			There is agreement with the purpose of inspection, but not the frequency.
			The tiered velocity monitoring approach is based upon a statistical analysis
			of six separate CWIS operated in the GOM during 2015. The analysis is based
			on the rate-of-change in daily velocity monitoring data (attached as
			Appendix D). An ANOVA indicates no statistical difference in the rate of
			change in intake velocity among the five intakes (P < 0.05). The data are
			approximately normally distributed with a mean change in velocity equal to
			0.0001 (ft/s)/day and a standard deviation equal to 0.0106 (ft/s)/day. Based
			on these data, there is a 95% probability that the mean velocity increase
			over any 30-day period will be less than 0.11 (ft/s)/day; and a 95%
			probability that the mean velocity increase over any 90-day period will be
			less than 0.20 (ft/s)/day. Therefore, 95% of all monthly intake velocity
			measurements will be less than 0.5 ft/s provided that the previous month's
			velocity measurement was less than 0.39 ft/s. Similarly, 95% of all quarterly
			velocity measurements will be less than 0.5 ft/s provided that the previous
			quarter's measurement was less than 0.30 ft/s.
			We note this data makes sense relative to visual inspection information
			presented elsewhere the rate of biogrowth on intakes is quite low and so
			·
			the rate of change of intake velocity would also be expected to be quite low,
			hence allowing for reduced monitoring frequencies (using a tiered approach
			to ensure compliance with the 0.5 fps standard for any CWIS design).

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			Related to this issue, EPA must allow for the fact that some affected facilities have been constructed between July 2006 and October 2022 with intake flow velocity monitoring designs based on initial and quarterly/monthly/daily flow monitoring. These facilities may require capital upgrades to reach a continuous intake flow velocity monitoring capability.
			Should EPA require continuous monitoring, The Joint Trades propose the following language be added to this section of the permit:
			Compliance with continuous intake flow velocity monitoring must be achieved within two years after the effective date of this permit.
05 - CWIS	Part	The cooling water intake structure(s) must be designed, constructed, operated,	The Joint Trades recommend that EPA consider the comments submitted
Drilling	I.B.12.b.1).	and maintained so that the maximum through-screen design intake velocity shall	by the International Association of Drilling Contractors (IADC) regarding
	i	not exceed 0.5 ft/s;	cooling water intake structures on non-fixed facilities.
05 – CWIS	Part	The permittee must develop and implement an Operation and Maintenance plan	The Joint Trades recommend that EPA consider the comments
Drilling	I.B.12.b.1).	to minimize impingement mortality of fish and shellfish through use of cooling	submitted by the International Association of Drilling Contractors (IADC)
	ii	water intake design and construction technologies or operational measures.	regarding cooling water intake structures on non-fixed facilities.
06 – 24 hr	Part	Free Oil. No free oil shall be discharged. Discharge is limited to those times that	The Joint Trades recommend revising the last sentence of this paragraph as
Reporting	I.B.10.a	a visual sheen observation is possible unless the operator uses the static sheen	follows:
		method. Monitoring shall be performed using the visual sheen method on the	
		surface of the receiving water every day when discharging, or by use of the static	The total number of days a sheen is observed must be recorded and
		sheen method at the operator's option. Visual sheen observation must be made	reported in accordance with Part II.D.7.c of this permit.
		during daylight in the vicinity of outfalls. Observation of sheen must be recorded	
		whenever a sheen is observed during the day. The total number of days a sheen	Rationale: Providing a specific reference for reporting increases clarity of
		is observed must be recorded and reported.	the requirement and provides certainty to the regulated community.
06 – 24 hr	Part	Free Oil. No free oil shall be discharged. Discharge is limited to those times that	The Joint Trades recommend revising the last sentence of this paragraph as
Reporting	I.B.11.a	a visible sheen observation is possible unless the operator uses the static sheen	follows:
		method. Monitoring shall be performed using the visual sheen method on the	
		surface of the receiving water daily when discharging, or by use of the static	The total number of days a sheen is observed must be recorded and
		sheen method daily at the operator's option. Visual sheen observation must be	reported in accordance with Part II.D.7.c of this permit.

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		made during daylight in the vicinity of outfalls. Observation of sheen must be recorded whenever a sheen is observed during the day. The total number of days a sheen is observed must be recorded and reported.	Rationale: Providing a specific reference for reporting increases clarity of the requirement and provides certainty to the regulated community.
06 – 24 hr Reporting	Part I.B.3.a	Free Oil. No free oil shall be discharged, as determined by the visual sheen method on the surface of the receiving water. Monitoring shall be performed daily when discharging, during conditions when an observation of a visual sheen on the surface of the receiving water is possible in the vicinity of the discharge, and the facility is manned. If a sheen is observed at other times, in addition to	The Joint Trades recommend revising the last sentence of this paragraph as follows:  The total number of days a sheen is observed must be recorded and reported in accordance with Part II.D.7.c of this permit.
OC 24 hr	Part I D.C.	the required daily monitoring, it must be recorded. The total number of days a sheen is observed must be recorded and reported.	Rationale: Providing a specific reference for reporting increases clarity of the requirement and provides certainty to the regulated community.
06 – 24 hr Reporting	Part I.B.6.a	Free Oil. No free oil shall be discharged. Monitoring shall be performed using the static sheen test method daily when discharging and the facility is manned. The total number of days a sheen is observed must be recorded and reported.	The Joint Trades recommend revising the last sentence of this paragraph as follows:  The total number of days a sheen is observed must be recorded and reported in accordance with Part II.D.7.c of this permit.
			Rationale: Providing a specific reference for reporting increases clarity of the requirement and provides certainty to the regulated community.
06 – 24 hr Reporting	Part II.D.7.a	The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be reported to the Offshore 24-Hour Reporting Application Portal at the following address https://caedext.epa.gov/ords/caedext/f?p=OFFSHOREINCIDENT within 24 hours of the time the permittee becomes aware of the circumstances. A detailed report shall be submitted with the quarterly NetDMR. The report shall contain the following information:	The Joint Trades strongly recommend that EPA hold a training seminar and provide instructions for the regulated community on the new reporting system prior to the permit becoming effective.
06 – 24 hr Reporting	Part II.D.7.c	All sheen events associated with Miscellaneous Discharges, Miscellaneous Discharges of seawater and freshwater to which treatment chemicals have been added, Well Treatment Fluids, Completion Workover Fluids, Pipeline Brine, Produced Water, Deck Drainage, Drill Cuttings, and Drilling Fluids must be reported under the twenty-four hour reporting requirements.	The Joint Trades recommend the proposed permit language be changed as follows:  All sheens on the receiving water from permitted discharge points with free oil limitations must be reported under the twenty-four hour reporting requirements. If the online reporting system is not available

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			or functioning, operators may submit the required notification via email to: INSERT EMAIL ADDRESS.
			Rationale: The suggested red text above adds clarity that EPA is referring to discharges subject to the requirements of the permit. Sheens from other, non-permitted sources (typically traditional oil spills) are currently required to be reported immediately to the National Response Center. In addition, EPA has proposed language for produced water discharges for operators to document the cause of produced water sheens and that documentation of those sheens be available for inspection, as well as reported on DMRs.
			By restricting the 24-hour reporting requirements to discharges with free oil limitations, duplicative reporting and complexity of requirements is eliminated.
			However, if produced water is retained in the final permit as a sheen that requires 24-hour reporting, then EPA should provide some clarification that a sheen from produced water discharges may not be a non-compliance based on the outcome of the required sheen sampling.
			Similarly, treatment, completion, workover fluids are required to meet free oil limitations using the static sheen test. Often, the static sheen test is run prior to fluid discharge. If the fluid does not pass the static sheen test, then it is not discharged. Therefore, the Joint Trades are requesting that EPA clarify that if an effluent stream does not pass a static sheen test and, as a result, is not discharged to the receiving water then 24-hour reporting is not required.
			Lastly, the regulated community needs a secondary method of submitting the required report in the event that the online reporting system is unavailable.

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07 - eNOI	Authorizati on to Discharge	Operators located within the general permit area must submit an electronic Notice of Intent (NOI) that they intend to be covered. An operator must file one NOI for each facility to cover all discharges associated with the facility. An NOI	The Joint Trades offer the following suggested revisions to the proposed permit language:
	Under the National Pollutant Discharge Elimination System	must be updated as necessary to identify additional discharges needing (or existing discharges no longer needing) authorization under this permit. Operators who previously submitted an NOI to be covered under this permit are covered under this reissued permit until 60 days after the effective date of the reissued permit and must submit a new NOI prior to that date to retain coverage.	Operators who previously submitted an NOI to be covered under this permit are covered under this reissued permit until 60 days after either the effective date of the reissued permit or the date the eNOI system is available (whichever is later) and must submit a new NOI prior to that date to retain coverage.
			Rationale: The Joint Trades are requesting the additional language to this section of the permit to provide clarity in the event the eNOI system is unavailable.
			The Joint Trades respectfully request that EPA hold workshops in both Houston and New Orleans for the new eNOI system that are specific to the Region 6 OCS permit and reiterate there be a transitional period to assure the system is fully operational before its use becomes a requirement.
07 - eNOI	Part I.A.2	Operators who filed eNOIs under the previous permit, issued on September 30, 2017, will be authorized to discharge by this reissued permit without submittal of an NOI up to 60 days after the effective date of the reissued permit. Operators	The Joint Trades offer the following suggested revisions to the proposed permit language:
		must submit a new eNOI within 60 days of the effective date of the reissued permit, to retain coverage after that time. During any time the eNOI system is unavailable, operators may submit a short NOI via email to the Offshore Specialist or paper NOI via mail to:  U.S. Environmental Protection Agency, Region 6  Water Enforcement Branch (ECD-WE)	Operators who filed eNOIs under the previous permit, issued on September 30, 2017, will be authorized to discharge by this reissued permit without submittal of an NOI up to 60 days after either the effective date of the reissued permit or the date the eNOI system is available (whichever is later). Operators must submit a new eNOI within 60 days of the effective date of the reissued permit, to retain coverage after that time.
		ATTN: Offshore Specialist 1201 Elm Street, Suite 500 Dallas, Texas 75270 The email/paper NOI shall include information a) through f) listed below. EPA	An email or a written and signed paper NOI mailed to EPA will be accepted as temporary coverage based on the postmark/email date. The temporary NOI is good for 14 days, unless an extension is granted by the Director. Official eNOIs shall be filed within 14 days of

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Торіс		will consider disruptions in both the eNOI and elecNOI registration systems (including waiting on EPA personnel to resolve issues) to fall under the meaning of the system being unavailable and thus allow the use of temporary NOIs if necessary. An email or a written and signed paper NOI mailed to EPA will be accepted as temporary coverage based on the postmark/email date. The temporary NOI is good for 14 days, unless an extension is granted by the Director. Official eNOIs shall be filed within 14 days of submitting a temporary NOI. EPA may deny an NOI within 45 days after the filing. All NOIs shall include the following information:	submitting a temporary NOI. If the eNOI system remains unavailable, the temporary NOI coverage will be extended to 14 days after the system becomes functional. EPA may deny an NOI within 45 days after the filing. All NOIs shall include the following information:  Rationale: The Joint Trades are requesting the change in the rare instance where the eNOI system is unavailable for an extended period of time, the permit should contain language to address such a situation.  The Joint Trades respectfully request that EPA hold workshops in both they can and New Orleans for the new eNOI system that are chasiles to the
			Houston and New Orleans for the new eNOI system that are specific to the Region 6 OCS permit and reiterate there be a transitional period to assure the system is fully operational before its use becomes a requirement.
07 - eNOI	Part I.A.2	<ul> <li>a) the legal names, company number and contact information of the designated operator registered with the Bureau of Ocean Energy Management (BOEM) or the Bureau of Safety and Environmental Enforcement (BSEE);</li> <li>b) the legal name, company number and contact information of the operator who files the eNOI;</li> <li>c) the permit number previously assigned to the operator;</li> <li>d) the lease block (including state tract) code and number assigned by BOEM/BSEE;</li> <li>e) the name and/or identification (BSEE Complex ID/API Number) and location including geographic coordinates (latitude and longitude) of the facility owned or operated by the operator;</li> <li>f) the types of discharges and associated sources (facilities or wells) under the control of the operator;</li> <li>g) expecting/actual drill/discharge commence date and well locations;</li> <li>h) the range of depth of water within the operation area or the estimated sea depths at wells;</li> <li>i) new facilities (defined as facilities for which construction was commenced after July 17, 2006): design intake capacity (million gallons per day as MGD)</li> </ul>	The Joint Trades recommend the proposed permit language in item I) be modified as follows:  I) any other information included in the eNOI to identify the nature and location of each discharge being authorized and any co-permittees, if applicable. For each separate discharge point, the location volume and nature of the discharge.  Rationale: This change is recommended because the location, volume and nature of a discharge may change over time. In addition, item f) requires the operator to list the types of discharges (similar to nature of discharge) expected from the facility and item e) requires BSEE Complex ID/API Number and geographic coordinates (location). Not all authorized discharges listed in the permit have limitations or monitoring requirements related to discharge volume. For those permitted discharges that have requirements regarding discharge volume that information will be reported to EPA on an ongoing basis as stipulated by the permit.

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		of each cooling water intake structure (CWIS), the maximum designed intake through-screen velocity (feet per second as ft/s) of each CWIS, and the percentage (%) of total intake water used for cooling purpose; (Note: A new facility which has designed intake capacity >= 2 MGD must have designed intake through-screen velocity <= 0.5 ft/s to be eligible for coverage under this general permit.) (Note: The operator shall keep the record of detailed descriptions, calculations and drawings on site available for inspection, instead of submittal to EPA.)  j) whether or not the operator's activities are located in a lease block either in or immediately adjacent to "no activity" areas or require live bottom surveys;  k) whether the NOI is being submitted to transfer coverage due to a merger or acquisition and if so, the identification of the affected parties, timing of the transfer of operational control, and confirmation that notice had been submitted to EPA; and,  l) any other information included in the eNOI to identify the nature and location of each discharge being authorized and any co-permittees, if applicable. For each separate discharge point, the location volume and nature of the discharge.	
07 - eNOI	Part I.A.2	Permittees are required to make timely updates to the eNOI. Any change in name, location, address, contact or contact information must be updated within 30 days of the change.	The Joint Trades offer the following suggested edits to this paragraph:  Permittees are required to make timely updates to the Operators  NPDES ID section in EPA's CDX system eNO1. Any change in name, address, contact or contact information must be updated within 30 days of the change.  Rationale: The Joint Trades request that this section clarify the updates to be made to the Operators NPDES ID section in EPA's CDX system for contact information changes being that the CDX system is the repository for name, address, or contact information requested.
07 - eNOI	Part I.A.2	Please visit https://usepa.servicenowservices.com/oeca_icis for eNOI/eNOT instructions.	The Joint Trades recommend that EPA ensure this link is functioning prior to the issuance of the final permit.

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07 - eNOI	Part I.A.2	A Notice of Intent (NOI) must be filed in advance to cover specific discharges prior to commencement of specified discharges. The primary operator must file an electronic Notice of Intent (eNOI) for discharges directly associated with oil/gas exploration, development, or production activities to be covered by this permit. A separate eNOI is required for each facility and that eNOI shall include all discharges controlled by the primary operator. Other operators or vessel operators must file an eNOI to cover discharges which are directly under their controls but are not covered by eNOIs filed by the primary operator. In a case-by-case circumstance, the primary operator may require day-to-day or vessel operators to file their own eNOIs for dual coverage. Individual coverage by this permit becomes effective when a complete eNOI is signed and submitted. Once an eNOI has been accepted for coverage a Permitted Feature ID numbers will be assigned.	The Joint Trades recommend the following revised language:  Once an eNOI has been accepted for coverage a Permitted Feature ID Structure ID number will be assigned.  Rationale: It is our understanding the Permitted Feature ID and Structure are synonymous and the terminology used in the permit should be consistent with the reporting systems.
07 - eNOI	Part I.A.2	A facility means either an exploratory facility, a development facility, or a production facility as defined in Part II.G of the permit. All well heads and infrastructures connected to the facility shall be considered parts of the host facility. For clarification purposes, following conditions apply:  Note 1: A separate eNOI is required for each facility, and that eNOI shall include all discharges associated with that facility controlled by the primary operator.  Note 2: An eNOI filed for a drilling vessel is valid for different drilling jobs within the same lease block from the originally filed location if drilling jobs are	The Joint Trades recommend the proposed permit language be modified as follows:  A facility means either an exploratory facility, a development facility, or a production facility as defined in Part II.G of the permit. All well heads, pipelines, jumpers, and associated infrastructure connected to the facility shall be considered parts of the host facility, even where such infrastructure crosses lease block boundaries. For clarification purposes, following conditions apply:
		performed for the same designated operator. (Note: eNOI update is required to reflect well locations and associated information.) A separate eNOI is required for drilling jobs not within the same lease block, and/or if the Mobile Offshore Drilling Unit or drilling vessel moves to a new lease block.	Note 1: A separate eNOI is required for each facility, and that eNOI shall include all discharges associated with that facility controlled by the primary operator.
		Note 3: While a drilling vessel is located in the leasing block permit area between drilling jobs, it may file an eNOI for coverage.	Note 2: An eNOI filed for a Mobile Offshore Drilling Unit or drilling-vessel is valid for different well drilling-jobs within the same lease block from the originally filed location if well drilling-jobs are performed for the same designated operator. (Note: eNOI update is required to reflect well locations and associated information.) A separate eNOI is required for

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			well drilling jobs not within the same lease block, and/or if the Mobile Offshore Drilling Unit or drilling vessel moves to a new lease block.
			Rationale: The recommended revised language provides additional clarity on the types of equipment and infrastructure associated with a host facility and provides additional context for the regulated community to understand the intent of the permit. In addition, the revised language in Note 2 broadens the types of operations a MODU or vessel may undertake. The term "drilling" does not address well completions, treatment, intervention or decommissioning operations.
07 - eNOI	Part I.A.4	a) During the initial term of permit: : The new operator shall submit an NOI prior to taking operational control and the old operator shall submit a NOT (for all lease areas/blocks as well as their NPDES permit number. Final DMRs shall also be submitted) within 60 days of receiving confirmation that the new permittee has submitted the NOI.	The Joint Trades recommend the proposed language in paragraph a) be changed as follows:  a) During the initial term of permit: The surviving company of a merger between two offshore companies shall submit an NOI (or NOIs) prior to taking operational control. The company that will no longer operate shall submit a NOT within 60 days of relinquishing operational control. The company that will no longer operate shall also submit final DMRs within 60 days of their NOT date(s).
			Rationale: The proposed language creates unnecessary burden on the regulated community because the information requested in the proposed language is duplicative of the information provided in the NOI. In addition, linking the submission of an NOT for one operator to the submittal of an NOI for another operator ties permit compliance for one operator to another. The operator relinquishing operational control of a facility has no control over whether the company acquiring the facility will submit the required NOI. Therefore, the relinquishing company cannot achieve compliance independently and must rely on the acquiring company. Furthermore, the date that operational control is transferred between two companies is a logical date, negotiated between the two parties, which should drive submission of NOIs and NOTs. In addition, the date of transfer

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			of operational control should also be the date when any non-compliances
			would begin once the surviving company assumes operational control.
07 - eNOI	Part I.A.4	b) Companies involved in a merger must also submit a written and signed	The Joint Trades recommend striking the proposed language:
		agreement between the companies identifying: the names of the two	
		offshore companies and their assigned NPDES permit number; the	b) Companies involved in a merger must also submit a written and
		agreement between the two companies for the merger; the effective date	signed agreement between the companies identifying: the names of
		of the merger; the lease area(s)/block(s) involved in the merger; the	the two offshore companies and their assigned NPDES permit number;
		surviving company name; the surviving NPDES permit number; and liability.	the agreement between the two companies for the merger; the
		This letter can be emailed to the Offshore Specialist or sent to the address	effective date of the merger; the lease area(s)/block(s) involved in the
		below:	merger; the surviving company name; the surviving NPDES permit
			number; and liability. This letter can be emailed to the Offshore
			Specialist or sent to the address below:
			Rationale: The proposed language creates unnecessary burden on the
			regulated community because the information requested in the proposed
			language is duplicative of the information provided in the NOI and NOT as
			listed in section 4.a. Furthermore, the date that operational control is
			transferred between two companies is a logical date, negotiated between
			the two parties, which should drive submission of NOIs and NOTs. In
			addition, the date of transfer of operational control should also be the date
			when any non-compliances would begin once the surviving company
			assumes operational control.
07 - eNOI	Part I.A.4	NOTE: Each company must collect and report their own samples. Samples from	The Joint Trades recommend that the following text be removed from the
		a company transferring coverage cannot be used by the receiving company.	permit:
		Transfer of coverage can be for a single lease area/block of multiple lease	
		areas/blocks. Transfer of coverage during "Administratively Continued" status	NOTE: Each company must collect and report their own samples.
		can only occur when the company who is transferring their coverage obtained	Samples from a company transferring coverage cannot be used by the
		that coverage on or before midnight of when the previous permit expired.	receiving company. Transfer of coverage can be for a single lease
			area/block of multiple lease areas/blocks. Transfer of coverage during
		The written and signed agreements shall be sent to the following address:	"Administratively Continued" status can only occur when the company
			who is transferring their coverage obtained that coverage on or before
		U.S. Environmental Protection Agency, Region 6	midnight of when the previous permit expired.

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07 - eNOI	Water Enforcement Branch (ECD-WE) ATTN: Offshore Specialist 1201 Elm Street, Suite 500 Dallas, Texas 75270  Note that if the 2022 permit is not reissued or replaced prior to the expiration	Rationale: The information listed in the "NOTE" is important for the regulated community to understand. However, the Joint Trades recommend that this information be included in guidance and/or instructions that support implementation of the permit requirements.  The Joint Trades recommend adding the following:
or end Patti.A.3	date, it will be administratively continued in accordance with section 558(c) of the Administrative Procedure Act (see 40 CFR 122.6) and remain in force and effect for operators that were covered prior to its expiration. All operators authorized to discharge prior to the expiration date of the 2022 permit will automatically remain covered under the 2022 permit until the earliest of:  a) The date the operator is authorized for coverage under a new version of the permit following the timely submittal of a complete and accurate NOI. Note that if a timely NOI for coverage under the reissued or replacement permit is not submitted, coverage will terminate on the date that the NOI was due; or  b) The date of the submittal of a Notice of Termination; or  c) Issuance of an individual permit for the facility's discharge(s); or  d) A final permit decision by EPA not to reissue the permit, at which time EPA will identify a reasonable time period for covered operators to obtain coverage under an alternative general permit or an individual permit. Coverage under the 2022 permit will terminate at the end of this time period.	Note that if the 2022 permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with section 558(c) of the Administrative Procedure Act (see 40 CFR 122.6) and remain in force and effect for operators that were covered prior to its expiration. Operators with existing coverage may continue to submit NOIs during the period the permit is continued. All operators authorized to discharge prior to the expiration date of the 2022 permit will automatically remain covered under the 2022 permit until the earliest of:  Rationale: As proposed, the existing General Permit will be administratively continued for existing facilities if there is a delay, but discharges from new facilities and operations may not be covered under the existing permit (e.g., discharges from new drilling, completion, and abandonment operations and from new oil and natural gas platforms); therefore, those facilities and activities may need to obtain separate coverage for those associated discharges via a lengthy individual permit application. Furthermore, an administrative continuance of the General Permit could result in delays or cancellations of new projects and may further delay delivery of existing and planned energy resources to the market and the American people. To avoid these consequences, the Joint Trades request the addition of the above language clarifying that EPA will continue processing new Notices of Intent for coverage for new lease areas under the administrative continuance until the renewed General Permit becomes effective. This would allow the Agency time to carefully consider all comments and provide permittees the

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			confirmation needed to continue to plan and execute necessary activities. With 15% of U.S. oil production coming from the U.S. Gulf of Mexico, any disruption in that production or future development could be detrimental to an already imbalanced supply and demand market.
07- eNOI	Part I.A.4	c) During any "administratively continued" term of the permit following the indicated expiration date: The new operator shall submit an NOI at least 30 days prior to taking operational control and the old operator shall submit a NOT within 60 days of receiving confirmation that the new permittee has submitted the NOI. The new operator shall submit a written agreement between the new and old permittees concerning the date of the transfer of permit responsibility, coverage, and liability. This letter can be emailed to the Offshore Specialist or sent to the address below:	The Joint Trades recommend the proposed permit be changed as follows:  During any "administratively continued" term of the permit following the indicated expiration date: The new operator shall submit an NOI at least 30 days prior to taking operational control and the old operator shall submit a NOT within 60 days of relinquishing operational control. receiving confirmation that the new permittee has submitted the NOI. The new operator shall submit a written agreement between the new and old permittees concerning the date of the transfer of permit responsibility, coverage, and liability. This letter can be emailed to the Offshore Specialist or sent to the address below:  Rationale: The proposed language creates unnecessary burden on the regulated community because the information requested in the proposed language is duplicative of the information provided in the NOI. Furthermore, the date that operational control is transferred between two companies is a logical date, negotiated between the two parties, which should drive submission of NOIs and NOTs. In addition, the date of transfer of operational control should also be the date when any non-compliances would begin once the surviving company assumes operational control.
09 – Miscellane ous Discharges	Part I.B.10	(iv) Subsea Discharges: Subsea Wellhead Preservation Fluid, Subsea Cleaning Fluids, Subsea Production Control Fluid, Umbilical Steel Tube Storage Fluid, Leak Tracer Fluid, Riser Tensioner Fluid, and Pipeline Brine (used as piping or equipment preservation fluids).	The Joint Trades support the addition of "Subsea Cleaning Fluids" to this section of the permit. However, we are recommending that a definition of "subsea cleaning fluids" be included in the permit. See our comments under Section G – Definitions.
		Note 1: Brine and water-based mud discharge at the seafloor for temporary well abandonment" are permitted if such water based drilling fluid and brine have been demonstrated to comply with the permits conditions for their original use	

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		(e.g.: water based drilling fluids that have been shown to meet the permit's limits for SPP toxicity, free oil, and cadmium and mercury in stock barite; and brine that has met limits for free oil, oil and grease concentrations, priority pollutants and toxicity requirements).	
09 – Miscellane ous Discharges	Part I.B.11	Excess water which permits the continuous operation of fire control and utility lift pumps, Excess water from pressure maintenance and secondary recovery projects, Water released during training of personnel in fire protection, Water used to pressure test new and existing piping and pipelines, Ballast water, Once through non-contact cooling water, Water used as piping or equipment preservation fluids, and Water used during Dual Gradient Drilling.	The Joint Trades recommend the proposed permit language be revised as follows:  Excess water which permits the continuous operation of fire control and utility lift pumps, Excess water from pressure maintenance and secondary recovery projects,  Water released during training of personnel in fire protection, Water used to pressure test new and existing piping and pipelines,  Ballast water,  Once through non-contact cooling water,  Water used as piping or equipment preservation fluids, and Water used during Dual Gradient Drilling and well operations.  Rationale: Seawater and fresh water used for fluid displacement in well operations is drawn from chemically treated and uncontaminated sources. The chemically treated water sources are the same as, or similar to, those sources used for water released during training of personnel in fire
			protection, ballast water, once through non-contact cooling water, water used as piping or equipment preservation fluids, and water used during Dual Gradient Drilling. The change provides clarity and would be more inclusive of current operations in industry.
09 – Miscellane ous Discharges	Part I.B.11.a	If the effluent fails the survival endpoint at the critical dilution, the permittee shall be considered in violation of this permit limit. Also, when the testing frequency stated above is less than monthly and the effluent fails the survival endpoint at the critical dilution, the monitoring frequency for the affected species will increase to monthly until compliance with the NOEC limit (critical dilution) is demonstrated for a period of three consecutive months. After compliance is demonstrated for three consecutive months, the permittee may	The Joint Trades recommend modifying the proposed language in this paragraph to improve clarity. The recommended language is as follows:  For continuous discharges, if a test fails the survival or sub-lethal endpoint at the critical dilution in any test, the operator must perform monthly retest until it passes three consecutive monthly tests. Failing the toxicity test is considered violation of the permit. After compliance

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		return to the testing frequency in use at the time of the initial test failure. During the period the permittee is out of compliance, test results shall be reported on the DMR that includes this period. Reporting instructions can be found in Part II.D.4 of this permit.	is demonstrated for three consecutive months, the permittee may return to the testing frequency in use at the time of the initial test failure.
			Rationale: For non-continuous discharges, this language regarding frequency is not applicable since those discharges require monitoring once per discharge.
09 – Miscellane ous	Part I.B.11.b	Toxicity. The required frequency of testing for continuous discharges occurring more than once per week shall be determined as follows:  Discharge Rate Toxicity Testing Frequency	The Joint Trades recommend the following changes to the proposed permit language:
Discharges		0 - 499 bbl/day once per calendar year 500 - 4,599 bbl/day once per calendar quarter 4,600 bbl/day and above once per calendar month	<u>Toxicity</u> . The required frequency of testing for continuous discharges occurring more than once per week shall be determined as follows:
			Rationale: The phrase "occurring more than once per week" as applied to continuous discharges is confusing. If a discharge is "continuous" then, by its nature, it is an ongoing discharge and not limited to a weekly timeframe.
09 – Miscellane ous	Part I.B.11.b	Intermittent or batch discharges that occur less than or equal to once per week and lasts less than 24 hours shall be monitored once per discharge but are required to be monitored no more frequently than the corresponding	The Joint Trades recommend the proposed permit language be revised as follows:
Discharges		frequencies shown above for continuous discharges. Test Acceptability Criteria can be found in Section Part II.D.4 of this permit.	Intermittent or batch Non-continuous discharges that occur less than or equal to once per week and last less than 24 hours shall be monitored once per discharge but are required to be monitored no more frequently than the corresponding frequencies shown above for continuous discharges. Test Acceptability Criteria can be found in Section Part II.D.4 of this permit.
			Rationale: The Joint Trades recommend that the phrase "intermittent or batch discharges" be changed to "non-continuous discharges" to improve clarity as well as improve consistency with the previous paragraph discussing continuous discharges.

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			In addition, the language referencing the corresponding frequencies for continuous discharges is unnecessary. Non-continuous discharges are sampled as they occur and are not continuous. Therefore, a determining
09 – Miscellane ous Discharges	Part II.G	NEW PROPOSED DEFINITION	test frequency based on discharge rate or volume is not needed.  The Joint Trades recommend adding a new definition to the permit:  "Subsea cleaning fluids" means acidic cleaning agents used to dissolve marine deposits on subsea equipment during subsea maintenance and intervention activities to assure proper sealing of operating equipment and to avoid ingress of extremely high subsea pressures and egress (losses of containment) of fluids to the environment.
			Rationale: EPA provided this definition in the 2022 draft Fact Sheet that accompanied the proposed permit. The Joint Trades believe this definition is appropriate and should be included in the permit.
10 - MSD	Part I.B.7.b	Residual Chlorine. Total residual chlorine (TRC) is a surrogate parameter for fecal coliform. Discharge of TRC must meet a minimum of 1 mg/l and shall be maintained as close to this concentration as possible. A grab sample must be taken once per month and the concentration recorded. The approved methods are either Hach CN-66-DPD or EPA method specified in 40 CFR part 136 for TRC.	The Joint trades recommend the following revisions to the proposed language:  **Residual Chlorine.** Total residual chlorine (TRC) is a surrogate parameter for fecal coliform. Discharge of TRC must meet a minimum of 1 mg/l and shall be maintained as close to this concentration as possible. A grab sample must be taken once per month and the concentration recorded. The approved methods are either Hach CN-66-DPD or EPA method specified in 40 CFR part 136 for TRC.  **Equivalent Disinfection — Other Technologies.** The use of other disinfection technologies, including, but not limited to, bio-membrane filtration and ultra-violet light, are allowed as substitutes for total residual chlorine provided that those technologies result in equivalent or improved disinfection of the sanitary waste stream.

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Topic  10 - MSD	Part I.B.7.b	[Exception] Any facility operator which properly operates and maintains a marine sanitation device (MSD) that complies with pollution control standards and regulations under section 312 of the Act shall be deemed in compliance with permit prohibitions and limitations for sanitary waste. The MSD shall be tested yearly for proper operation and the test results maintained for three years at the facility or at an alternate site if not practicable. The operator is required to demonstrate proper operation of MSD via US Coast Guard approval, annual inspections, Class/Flag State inspections and/or the International Sewage Pollution Prevention Certificate (ISPPC) and maintenance logs/records. Failure to comply with any of the aforementioned requirements for the U.S. Coast	Rationale: The Joint Trades recommend that the EPA consider updating this standard to include additional types of disinfection technologies. Modern sanitary treatment equipment may also utilize other means by which to disinfect sanitary waste, such as bio-membrane technology and ultra-violet light. The single standard for total residual chlorine may limit the use of such technologies. Such technologies are proven and have been utilized in the sanitary waste treatment for many years. In addition, USCG-approved MSDs are already in use that do not utilize chlorine for disinfection. These types of units are approved by the USCG and the International Maritime Organization (IMO).  The Joint Trades recommend that the proposed permit language be revised as follows:  [Exception] Any facility operator which properly operates and maintains a marine sanitation device (MSD) that complies with pollution control standards and regulations under section 312 of the Act shall be deemed in compliance with permit prohibitions and limitations for sanitary waste. The MSD shall be tested yearly for proper operation and the test results maintained for three years at the facility or at an alternate site if not practicable. The operator is required
		Guard must be included in a non-compliance report to EPA.	to demonstrate proper operation of MSD via US Coast Guard approval, annual inspections, Class/Flag State inspections and/or the International Sewage Pollution Prevention Certificate (ISPPC) and maintenance logs/records. Failure to comply with any of the aforementioned requirements for the U.S. Coast Guard must be included in a non-compliance report to EPA. If an MSD is undergoing maintenance and/or is malfunctioning, then an operator may demonstrate compliance by maintaining disinfection capabilities. If the limitations are met this does not constitute a non-compliance.  Rationale: Based on discussions with EPA staff, it is our understanding that
			if an operator can demonstrate compliance with limitations during MS

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Topic			maintenance and/or malfunction, then the operator remains in compliance
			with permit limitations. This should be clearly documented in the permit.
10 - MSD	Part I.B.8.a	[Exception] Any facility operator which properly operates and maintains a marine sanitation device (MSD) that complies with pollution control standards and regulations under section 312 of the Act shall be deemed in compliance with permit prohibitions and limitations for sanitary waste. The MSD shall be tested yearly for proper operation and the test results maintained for three years at the facility or at an alternate site if not practicable. The operator is required to demonstrate proper operation of MSD via US Coast Guard approval, annual inspections, Class/Flag State inspections and/or the International Sewage Pollution Prevention Certificate (ISPPC) and maintenance logs/records. Failure to comply with any of the aforementioned requirements for the U.S. Coast Guard must be included in a non-compliance report to EPA.	The Joint Trades recommend that the proposed permit language be revised as follows:  [Exception] Any facility operator which properly operates and maintains a marine sanitation device (MSD) that complies with pollution control standards and regulations under section 312 of the Act shall be deemed in compliance with permit prohibitions and limitations for sanitary waste. The MSD shall be tested yearly for proper operation and the test results maintained for three years at the facility or at an alternate site if not practicable. The operator is required to demonstrate proper operation of MSD via US Coast Guard approval, annual inspections, Class/Flag State inspections and/or the International Sewage Pollution Prevention Certificate (ISPPC) and maintenance logs/records. Failure to comply with any of the aforementioned requirements for the U.S. Coast Guard must be included in a non-compliance report to EPA. If an MSD is undergoing maintenance and/or is malfunctioning, then an operator may demonstrate compliance by maintaining disinfection capabilities. If the limitations are met this does not constitute a non-compliance.  Rationale: Based on discussions with EPA staff, it is our understanding that if an operator can demonstrate compliance with limitations during MSD
			maintenance and/or malfunction, then the operator remains in compliance
			with permit limitations. This should be clearly documented in the permit.
11 -	Part I.D.3.1	Compliance with the WET limit is established when both the sublethal and lethal	The Joint Trades recommend revising the paragraph preceding the STORET
STORET		NOEC of a WET test is greater than or equal to the critical dilution. Compliance	codes table as follows:
Codes		is represented by a "0" in the DMR. In accordance with Part II.D.4 of this permit,	
NODI		if the (sublethal or lethal) NOEC for <i>Menidia beryllina</i> is less than the permittee's	Compliance with the WET limit is established when both the sublethal
Codes		critical dilution, this constitutes a violation of the WET limit and a "1" should be	and lethal NOEC of a WET test is greater than or equal to the critical
		entered under parameter 51712 of the DMR. If the NOEC is greater than or equal	dilution. Compliance is represented by a "0" in the DMR. In accordance

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		to the critical dilution, a "0" should be estable sublethal) NOEC for Americamysis bahia (for toin Method 2007.0 and 1007.0, and DMI dilution, this constitutes a violation of a Wounder parameter 51713. If the NOEC is dilution, a "0" should be entered in the Dithe permittee shall also report the results	formerly <i>Mysidops</i> . Rs) is less than the VET limit and a "1" greater than or e MR. For each toxic	is bahia as referred permittee's critical should be entered qual to the critical	with Part II.D.4 of this permit, if the (sublethal or lethal) NOEC for Menidia beryllina is less than the permittee's critical dilution, this constitutes a violation of the WET limit and a "1" should be entered under parameter 51712 of the DMR. If the NOEC is greater than or equal to the critical dilution, a "0" should be entered in the DMR. If the (lethal or sublethal) NOEC for Americamysis bahia (formerly Mysidopsis bahia as referred to in Method 2007.0 and 1007.0, and DMRs) is less than the	
		Reporting Requirement	<b>.</b>	STORET CODE	permittee's critical dilution, this constitutes a violation of a WET limit	
		Enter a "1" if either the sublethal or lethal NOEC is less than the critical dilution, otherwise enter a "0".	Americamysis bahia 51713	Menidia beryllina 51712	and a "1" should be entered under parameter 51713. If the NOEC is greater than or equal to the critical dilution, a "0" should be entered in the DMR. For each toxicity test conducted, the permittee shall also	
		Report the NOEC value for survival	TOP3E	TOP6J	report the results as follows:	
		Report the LOEC value for survival Report the NOEC value for growth or	TXP3E TPP3E	TXP6J TPP6J	Rationale: The type of information highlighted above for removal from the	
		reproduction  Report the LOEC value for growth  Report the critical dilution used for the test	TYP3E 51726	TYP6J 51726	paragraph is better suited for DMR instructions rather than permi	
		·			In addition, the following STORET CODE Corrections are needed to this table for M. Beryllina:  Survival NOEC TOP6B Survival LOEC TXP6B Growth NOEC TPP6B Growth LOEC TYP6B	
11 – STORET Codes NODI Codes	Part I.D.3.2	A chronic test shall be conducted per dis shall report the results as follows:	charge. For each f	test, the permittee	As recommended in these comments, chronic toxicity testing for TCW fluids should be removed from the permit.  However, if the requirement is retained, the following STORET CODE Corrections are needed to this table:  • M. Beryllina 51712  • Survival NOEC TOP6B  • Survival LOEC TXP6B	

Agenda Topic	Section	2022 Proposed Pe	ermit Language		Joint Trades Comments
		Reporting Requirement		TORET CODE	Growth NOEC TPP6B
			Americamysis bahia	<del></del>	Growth LOEC TYP6B
		Enter a "1" if the NOEC for survival is less than the critical dilution, otherwise enter a "0".	TLP3E	TLP6J	• CD 51726
		Report the NOEC value for survival	TOP3E	TOP6J	
		Report the LOEC value for survival	TXP3E	TXP6J	• A. Bahia 51713
		Enter a "1" if the NOEC for growth or reproduction is less than the critical dilution, otherwise enter a "0".	TWP3E	TWP6J	Survival NOEC TOP3E     Survival LOEC TXP3E
		Report the NOEC value for growth or reproduction	ТРРЗЕ	TPP6J	Growth NOEC TPP3E
		Report the LOEC value for growth	ТҮРЗЕ	ТУР6Ј	<ul><li>Growth LOEC TYP3E</li><li>CD 51726</li></ul>
11 -	Part I.D.4.1	Monthly reporting of toxicity data is requir	ed regardless of the	testing frequency.	The Joint Trades recommend removing the references to NODI codes from
STORET		This is to allow a space in the DMR to repo	ort data under a fluc	tuating frequency.	the permit as this type of language is better suited for DMR instructions
Codes		If a test is not conducted every month, the	nen the permittee i	must report "NODI	instead of permit language. The recommended permit text is as follows:
NODI		9" for toxicity data.	•	·	
Codes		,			Monthly reporting of toxicity data is required regardless of the testing
					frequency. This is to allow a space in the DMR to report data under a
					fluctuating frequency. If a test is not conducted every month, then the
					permittee must report "NODI 9" for toxicity data.
11 -	Part I.D.4.1	Compliance with the WET limit is establish	shed when the NOE	C of a WET test is	The Joint Trades recommend revising the paragraph prior to the STORET
STORET		greater than or equal to the critical dilution	n. Compliance is re	presented by a "0"	codes table as follows:
Codes		in the DMR. In accordance with Part II.D	•	•	
NODI		lethal) NOEC for Menidia beryllina is less	· ·	· ·	Compliance with the WET limit is established when the NOEC of a
Codes		this constitutes a violation of the WET lim	nit and a "1" should	be entered under	WET test is greater than or equal to the critical dilution. Compliance
		parameter 51712 of the DMR. If the NOEC	is greater than or e	equal to the critical	is represented by a "O" in the DMR. In accordance with Part II.D.4 of
		dilution, a "0" should be entered in the D			this permit, if the (sublethal or lethal) NOEC for Menidia beryllina is
		for Americamysis bahia (formerly Mysido	o <i>psis bahia</i> as refe	rred to in Method	less than the permittee's critical dilution, this constitutes a violation
		2007.0 and 1007.0, and DMRs) is less tha	n the permittee's c	ritical dilution, this	of the WET limit and a "1" should be entered under parameter 51712
		constitutes a violation of a WET limit a	and a "1" should	be entered under	of the DMR. If the NOEC is greater than or equal to the critical
		parameter 51713. If the NOEC is greater t	than or equal to the	e critical dilution, a	dilution, a "0" should be entered in the DMR. If the (lethal or
		"0" should be entered in the DMR. Fo	or each toxicity te	st conducted, the	sublethal) NOEC for Americamysis bahia (formerly Mysidopsis bahia
		permittee shall also report the results as f	follows:		as referred to in Method 2007.0 and 1007.0, and DMRs) is less than

Agenda Topic	Section	2022 Proposed Pe	ermit Language	Joint Trades Comments	
		Reporting Requirement	Sammahari	STORET CODE	the permittee's critical dilution, this constitutes a violation of a WET limit and a "1" should be entered under parameter 51713. If the
		Reporting Requirement	Americamysis bahia		NOEC is greater than or equal to the critical dilution, a "0" should be
		Enter a "1" if the NOEC for survival is less than the critical dilution, otherwise enter a "0".	51712	51713	entered in the DMR. For each toxicity test conducted, the permittee
		Report the NOEC value for survival	TOM3E	TOM6J	shall also report the results as follows:
		Report the Critical Dilution used for the test	51726	51726	
					Rationale: The type of information included in the paragraph is better suited for DMR instructions rather than permit language.
					In addition, the following STORET CODE Corrections are needed to this table:
					• A. bahia 51713
					Survival NOEC TOM3E
					<ul><li>M. beryllina 51712</li><li>Survival NOEC TOM6B</li></ul>
11 – STORET	Part I.D.4.2	A chronic test shall be conducted per di shall report the results as follows:	scharge. For each t	test, the permittee	This section of the permit describes reporting requirements for acute testing. The paragraph should be changed as follows:
Codes		Reporting Requirement	Parameter 9	STORET CODE	1
NODI			Americamysis bahio	·	An acute <del>chronic</del> test shall be conducted per discharge. For each test,
Codes		Enter a "1" if the NOEC for survival is less than the critical dilution, otherwise enter a "0".	51712	51713	the permittee shall report the results as follows:
		Report the NOEC value for survival	TOM3E	TOM61	
		Report the Critical Dilution used for the test	51726	51726	In addition, the following STORET CODE Corrections are needed to this
					table:
					A. bahia 51713
					Survival NOEC TOM3E
					• CD 51726
					<ul> <li>M. beryllina 51712</li> <li>Survival NOEC TOM6B</li> <li>CD 51726</li> </ul>

Agenda Topic	Section	2022 Proposed Permit Language	Joint Trades Comments
11 – STORET Codes NODI Codes	Part II.C.2	Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. If a representative sample is not possible due to a natural disaster, environmental conditions, or weather, the facility should use one of the following NODI Codes: K – Natural disaster (declared by President) T – Environmental conditions- monitoring not possible (hurricanes that are not declared by President, high tides) V – Weather related (thunderstorms, hail, wind, etc.). Facilities have 30 days after a weather event/national disaster occurs to submit DMRs or other required reporting documents.	The Joint Trades recommend the following language be removed from the permit:  Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. If a representative sample is not possible due to a natural disaster, environmental conditions, or weather, the facility should use one of the following NODI Codes:" K—Natural disaster (declared by President) T—Environmental conditions monitoring not possible (hurricanes, high tides) V—Weather related (storms, hail, wind, etc.). Facilities have 30 days after a weather event/national disaster occurs to submit DMRs or other required reporting documents.
			Rationale: The strikethrough sentences above are more suited for updated guidance and DMR instructions. If such language is included in the permit and NODI codes change during the permit term, then the permit will be outdated and potentially contain incorrect information. Whereas guidance and/or DMR instructions can more easily be updated than permit language. Therefore, the Joint Trades recommend updating 2007 Permit Offshore Discharge Monitoring Reports INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs) UNDER OFFSHORE GENERAL PERMIT GMG290000.
			In addition, the listed NODI codes require additional clarification because the code descriptions overlap. For example, Code K is for natural disasters, which may be a hurricane in the Gulf of Mexico. However, Code V is described as Weather-Related including storms. It is unclear to the regulated community what the appropriate code should be for a hurricane/tropical storm.
11 – STORET Codes	Part II.D.4	Permittees shall be responsible for submitting accurate monitoring results for all facilities which they have permit coverage. The monitoring results for each facility shall be reported on DMRs for each individual permitted feature	The Joint Trades offer the following suggested revisions to the proposed permit language:

Agenda Topic	Section	2022 Proposed Permit Language	Joint Trades Comments
NODI Codes		authorized that has a monitoring requirement. Each individual permitted feature may authorize multiple points of discharge or outfalls. Points of discharge will be assigned limit sets based on discharge.	Permittees shall be responsible for submitting accurate monitoring results for all facilities which they have permit coverage. The monitoring results for each facility shall be reported on DMRs for each individual permitted feature authorized that has a monitoring requirement. Each individual permitted feature may authorize multiple points of discharge or outfalls. Points of discharge will be assigned limit sets based on discharge.
			Rationale: The Joint Trades are requesting the language change to this section of the permit to provide clarity. The final sentence of this paragraph creates ambiguity, and descriptions such as the assignment of limit sets is better suited for permit guidance and instructions.
12 – Statistical	Part I.D.3.g	Statistical Interpretation	The Joint Trades offer the following comments on statistical interpretation:
Procedure s		The statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in the appropriate method manual listed above, or the most recent update.	PMSD limits are protective of the environment and permittees. Upper PMSD limits prevent highly variable data that decreases the power of the required statistical methods from being used to demonstrate permit compliance. Lower PMSD limits prevent data sets with very low variability, hyper-sensitive data sets, from failing. If the PMSD for a sub-lethal data set is less than the lower PMSD limit and the required statistical methods indicate a statistically significant difference between the control and a treatment, this difference must be confirmed by calculating relative differences between the control and each treatment.
			Growth data are based on biomass: dry weight of survivors from each replicate divided by the number of organisms exposed not the number surviving. Any mortalities exacerbate sublethal biomass variability. If the replicate dry weight is for one surviving organism, it must be divided by the number originally exposed! If a treatment fails survival it is excluded from sub-lethal data analyses. If the survival and growth data are near perfect and clearly passing except at the highest concentration tested (low survival and high variability between replicates), the required statistical methods

Agenda	Section	2022 Proposed Permit Language	Joint Trades Comments
Topic			(Steel's Many-One Rank Test in particular) may not pick up >40% mortality as statistically significant. This can lead to the upper biomass PMSD limit being exceeded and an invalid test, even though the lower sample dilutions are statistically equivalent in survival and biomass to the concurrent control.
			Including the 2017 permit language for chronic tests could prevent resampling and retesting clearly passing data sets:
			If the conditions of Test Acceptability are met in Item 3.f. above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the survival test shall be considered to be passing and the permittee shall report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found below.
			And adding similar language for sublethal biomass data:
			If the conditions of Test Acceptability are met in Item 3.f. except that the PMSD upper limit is exceeded, then if the mean dry weight of surviving control organisms is equal to or greater than the limit in the test method, and the biomass data for the critical dilution and all lower dilutions are not more than the PMSD lower limit (11% for both species) less than the concurrent control, the growth test shall be considered to be passing and the permittee shall report a growth NOEC of not less than the critical dilution for the DMR reporting requirements found below.
12 -	Part I.D.4.f	**Test failure may not be construed or reported as invalid due to a coefficient	The Joints Trades recommend that the reference to PMSD values be
Statistical		of variation value of greater than 40%, or a PMSD value greater than the higher	removed from this section of the permit. PMSD limits do not apply to 48-
Procedure		value on the range provided.	hour tests.
S			

Agenda	Section	2022 Proposed Permit Language	Joint Trades Comments
Topic  13 – Other Changes	Part I.B.4.b	Oil and Grease. Samples for oil and grease monitoring shall be collected and analyzed a minimum of once per month. If a sheen is observed during the required daily monitoring, the operator must record the sheen and assess the cause of the sheen. In addition, a produced water sample shall be collected, within two (2) hours of when a sheen is observed in the vicinity of the discharge or within two hours after startup of the system if it is shut down following a sheen discovery and analyzed for oil and grease. The sample type for all oil and grease monitoring shall be grab or a composite which consists of the arithmetic average	The Joint Trades offer the following suggested revisions to the proposed permit language:  Oil and Grease. Samples for oil and grease monitoring shall be collected and analyzed a minimum of once per month. If a sheen is observed during the required daily monitoring, the operator must record the sheen and assess the cause of the sheen. In addition, a produced water sample shall be collected, within two (2) hours of when
		of the results of four (4) or more grab samples collected at even intervals during a period of 24-hours or less. The operator must keep records of findings and make the record available for inspector's review. The operator must report number of days of sheen observed during the reporting period. Oil and grease samples collected for any sheen event must be included in the monthly average on DMRs. If only one sample is taken for any one month, it must meet both the daily maximum and monthly average limits. Samples for oil and grease monitoring shall be collected prior to the addition of any seawater to the produced water waste stream. The analytical method is that specified at 40 CFR Part 136.	a sheen is observed in the vicinity of the discharge or within two hours after startup of the system if it is shut down following a sheen discovery and analyzed for oil and grease.  The operator must keep records of findings and make the record available for inspector's review. The operator must report number of days of sheen observed during the reporting period. Oil and grease samples collected for any sheen event must be included in the monthly average on DMRs.
			Rationale: The proposed permit contains both a section dedicated to produced water oil and grease limitations and another section for produced water visual sheen requirements. It appears that the intent is to delineate the sampling and analytical component in the oil and grease section while defining the monitoring/recordkeeping obligations related specifically to sheens in the visual sheen section. Since the passages referring to sheen recording, recordkeeping, and cause identification are already included in the visual sheen portion, the Joint Trades recommend removing the duplication from the oil and grease section. The requirement listed in the oil and grease section to collect produced water samples within two (2) hours of observing a sheen is pertinent to the sampling and analytical portion of the produced water requirements and should remain in this section.

Agenda	Section	2022 Proposed Permit Language	Joint Trades Comments
Topic			
Topic  13 – Other Changes	Part I.B.4.b	Visual Sheen. The permittee shall monitor free oil using the visual sheen test method on the surface of the receiving water. Monitoring shall be performed daily when discharging, during conditions when observation of a sheen on the surface of the receiving water is possible in the vicinity of the discharge, and when the facility is manned. If a sheen is observed in the course of required daily monitoring, or at any other time, the Operator must record the sheen and assess the cause of sheen. In addition, a produced water sample shall be collected, within two (2) hours of when a sheen is observed in the vicinity of the discharge or within two hours after startup of the system if it is shut down following a sheen discovery and analyzed for oil and grease. The sample type for all oil and grease monitoring shall be grab or a composite which consists of the arithmetic average of the results of four (4) or more grab samples collected at even intervals during a period of 24- hours or less. The operator must keep records of findings and make the record available for inspector's review. The operator must report total number of days of sheen observed during the reporting period.	The Joint Trades offer the following suggested revisions to the proposed permit language:  The permittee shall monitor free oil using the visual sheen test method on the surface of the receiving water. Monitoring shall be performed daily when discharging, during conditions when observation of a sheen on the surface of the receiving water is possible in the vicinity of the discharge, and when the facility is manned. If a sheen is observed in the course of required daily monitoring, or at any other time, the Operator must record the sheen and assess the cause of sheen. In addition, a produced water sample shall be collected, within two (2) hours of when a sheen is observed in the vicinity of the discharge or within two hours after startup of the system if it is shut down following a sheen discovery and analyzed for oil and grease. The sample type for all oil and grease monitoring shall be grab or a composite which consists of the arithmetic average of the results of four (4) or more grab samples collected at even intervals during a period of 24-hours or less. The operator must keep records of findings and make the record available for inspector's review. The operator must report total number of days of sheen observed during the reporting period.  Rationale: The proposed permit contains sections dedicated to oil and grease and another for Visual Sheen. It appears that the intent is to
			delineate the sampling and analytical component in the oil and grease section while defining the visual monitoring/recordkeeping obligations related specifically to sheens in the visual sheen section. Since the passage referring to collection of produced water samples within two (2) hours of observing a sheen is already included in the oil and grease section, the Joint Trades recommend removing the duplication from the visual sheen section.
13 – Other Changes	Part I.B.9.b	Solids. Observation must be made during daylight in the vicinity of domestic waste outfalls. If floating solids are observed at other times in addition to the daily monitoring, it must be recorded and reported to EPA.	The Joint Trades recommend modifying the permit language for domestic waste monitoring as follows:

Agenda Topic	Section	2022 Proposed Permit Language	Joint Trades Comments
			Solids. Observation must be made daily during daylight in the vicinity of domestic waste outfalls. If floating solids are observed at other times in addition to the daily monitoring, it must be recorded and reported to EPA.
			Rationale: Adding the word "daily" makes these requirements consistent with the sanitary waste monitoring requirements.
13 – Other Changes	Part II.D.4	If discharge is not applicable for a facility, "no discharge" must be reported for that facility until an NOT is submitted. If a permittee or facility submits a "no discharge" DMR for a reporting period in which a discharge occurred, it is a violation of this permit, and the permittee shall submit corrected data as soon	The Joint Trades recommend the following changes to the proposed permit language:  If discharge is not applicable for a facility, "no discharge" must be
		as the error is identified.	reported for that facility until an NOT is submitted. If a permittee or facility submits a "no discharge" DMR for a reporting period in which a discharge occurred, it is a violation of this permit, and the permittee shall submit corrected data no later than the following quarter.
			Rationale: A definitive timeframe provides clarity to both the regulated community and the agency. In addition, correction of such an error may require operators to validate the information submitted on the DMR and obtain the necessary signatures of the responsible corporate official. This approach is consistent with other sections of the permit, particularly Part II.D.4.
13 – Other Changes	Part II.G.71	"Produced Water" means the water (brine) brought up from the hydrocarbon-bearing strata during the extraction of oil and gas, and can include formation water, injection water, and any chemicals added downhole or during the oil/water separation process.	The Joint Trades recommend the following changes to the proposed permit language:  "Produced Water" means the water (brine) brought up from the hydrocarbon-bearing strata during the extraction of oil and gas, and can include formation water, injection water, and any chemicals added downhole or during the oil/water-oil/gas/water separation process.
			Rationale: The definition change to provide clarity, be more inclusive and a more realistic approach with what we believe is current operations in

Agenda Topic	Section	2022 Proposed Permit Language	Joint Trades Comments
			industry. The basic separation process at any offshore production facility is
			designed to separate oil, natural gas and produced water into 3 distinct
			streams for processing, handling and/or treatment.

#### 03 - Tracers

August 19, 2003 Letter from S. Wilson regarding Radioactive Tracers

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 6 1445 ROSS AVENUE, SUITE 1200 DALLAS, TX 75202-2733

AUG 1 9 2003

Mr. Tom Hampton President Pro Technics 6316 Windfern, Room 310 Houston, TX 77040

Dear Mr. Hampton:

Thank you for meeting with me on August 15, 2003 and supplying information on your product and its use in offshore oil and gas operations.

Based on the information you have presented, it appears that the discharge of well treatment fluids which contain Iridium-192 and Scandium-46 as propping agents would be in compliance with the requirements of the Western Gulf of Mexico Outer Continental Shelf NPDES General Pennit for the Offshore Oil and Gas Subcategory (GMG290000). Use of such radioactive elements in very low concentrations has been examined in the process of issuing National Effluent Limitations Guidelines and in our permit development. I understand that Iridium-192 and Scandium-46 are generally used in concentrations less than 0.1 ppm (2000 pCi/gm) and they are likely to be further diluted by other constituents involved in the process. The discharge of such well treatment fluids is presently allowed under the NPDES general permit with no additional monitoring requirements other than for oil and grease and free oil.

Again, it was good to meet with you and obtain more information on your industry. Should you have additional questions please feel free to contact me by telephone at (214) 665-7511 or by E-mail at: wilson is 60-200.

Sincerely,

J. Scott Wilson Acting Chief

NPDES Permits Section

Comments on Permit Appendices and Permit Supporting Documents

The Joint Trades are offering the following comments on the proposed permit appendices and permit supporting documents.

#### 08 - Permit Summary Table

#### A. Appendix F - Permit Summary Table

The Joint Trades request that the permit summary table should be deleted from the permit. The permit summary table is not necessary since it is repetitive of the permit limitations and requirements described in the permit itself. The information in the permit summary table is better suited for permit guidance and instructions. Inclusion of this type of information in the permit itself creates opportunities for discontinuity and misalignment with the permit text.

However, if the permit summary table is retained, it must be updated to align with the permit language. The Joint Trades have attached (Attachment D) a "redline" version of the proposed permit summary table that highlights areas where we believe there is inconsistency and inaccuracies in the table.

Most importantly, if the permit summary table is retained in the final permit, it is imperative that a statement be added to the permit summary table that states that the permit language, not the table, is the enforceable requirements of the permit.

#### 14 - Supporting Documents

#### B. Fact Sheet

The Joint Trades would like to note one item regarding the proposed Fact Sheet. The Fact Sheet includes the following statement regarding the industry-wide treatment, completion and workover fluids toxicity study:

46% of the samples collected showed acute toxicity for one or more species indicating that there is reasonable potential for acute toxicity stemming from well treatment, completion and workover fluid discharge. Therefore, in accordance with 40 CFR §122.44 (d)(1)(iv), acute WET limits are included the proposed permit. Chronic toxicity monitoring will be a requirement of the proposed permit to assess potential for chronic effects.

However, if the actual volume discharged is used to determine the critical dilution for those discharges lasting less than 24 hours, then 25 of the 28 (89%) samples analyzed did not exhibit acute toxicity at the critical dilution. During the industry-wide TCW study estimated flow rates were calculated using the total volume discharged divided by discharge duration to determine an hourly discharge rate. When this hourly rate is extrapolated to a 24-hour day the estimated discharge rate is conservatively overestimated.

For example, if 100 barrels of fluid are discharged in 1 hour, the discharge rate is 100 barrels/hour. Extrapolated to a "barrel per day" rate value, one could estimate a daily rate of 2400 barrels/day. However, this is not representative of what was actually discharged. 100 barrels was discharged in 1 hour and the discharge ceased, therefore, a more representative estimate of actual discharge rate is 100 barrels/day.

This illustrates the importance of clearly defining how discharge rates are used to determine critical dilution, especially if EPA proceeds with these requirements as a compliance limitation. This type of approach, use of the total volume discharged for discharges lasting less than 24 hours, is consistent with how discharge rates are estimated for other short duration discharges authorized by the permit.

#### C. Ocean Discharge Evaluation Criteria

The Joint Trades offer two observations regarding the Ocean Discharge Evaluation Criteria.

- Evaluation of discharges The Ocean Discharge Evaluation Criteria does not appear to provide a full
  evaluation of all discharge streams authorized by the permit. Produced water and drilling fluids are
  discussed extensively, but other authorized discharges such as deck drainage, sanitary waste, and
  miscellaneous discharges are not addressed. EPA should consider a more comprehensive review to better
  align the criteria with the authorized discharges.
- 2. List of threatened and endangered species The Joint Trades recommend that the list of threatened and endangered species in the Ocean Discharge Evaluation Criteria be reviewed to determine if the list is consistent with other documents describing Gulf of Mexico threatened and endangered species. The Joint Trades have identified 3 resources that may be helpful:
  - a. NOAA Fisheries Threatened and Endangered Species List Gulf of Mexico
  - b. NOAA Fisheries <u>Biological Opinion on the Federally Regulated Oil and Gas Program Activities in the Gulf of Mexico</u> (also known as "the BiOp).
  - c. BOEM's 2023-2028 National Outer Continental Shelf Oil and Gas Leasing Program <u>Draft</u>

    Programmatic Environmental Impact Statement.

#### D. Essential Fish Habitat Assessment

The Essential Fish Habitat Assessment includes the same statement as the Fact Sheet regarding the industry-wide treatment, completion and workover fluids toxicity study:

46% of the samples collected showed acute toxicity for one or more species indicating that there is reasonable potential for acute toxicity stemming from well treatment, completion and workover fluid discharge. Therefore, in accordance with 40 CFR §122.44 (d)(1)(iv), acute WET limits are included the proposed permit. Chronic toxicity monitoring will be a requirement of the proposed permit to assess potential for chronic effects.

However, if the actual volume discharged is used to determine the critical dilution for those discharges lasting less than 24 hours, then 25 of the 28 (89%) samples analyzed did not exhibit acute toxicity at the critical dilution. During the industry-wide TCW study estimated flow rates were calculated using the total volume discharged divided by discharge duration to determine an hourly discharge rate. When this hourly rate is extrapolated to a 24-hour day the estimated discharge rate is conservatively overestimated.

For example, if 100 barrels of fluid are discharged in 1 hour, the discharge rate is 100 barrels/hour. Extrapolated to a "barrel per day" rate value, one could estimate a daily rate of 2400 barrels/day. However, this is not representative of what was actually discharged. 100 barrels was discharged in 1 hour and the discharge ceased, therefore, a more representative estimate of actual discharge rate is 100 barrels/day.

This illustrates the importance of clearly defining how discharge rates are used to determine critical dilution, especially if EPA proceeds with these requirements as a compliance limitation. This type of approach, use of the total volume discharged for discharges lasting less than 24 hours, is consistent with how discharge rates are estimated for other short duration discharges authorized by the permit.

### Appendix F

Table 1. Effluent Limitations, Prohibitions and Monitoring Requirements (Samples collected and prepared for analyses must be representative of the monitored activities. The following are enforceable permit limits and a violation of this appendix is a violation of the permit and/or the Clean Water Act:)

For Reference Only. In the event of a discrepancy, the language in the text of the permit is the enforceable condition.

				Monitoring Requirement	11
	Regulated & Monitored	Discharge Limitation/			
Discharge	Parameter	Prohibition	Measurement Frequency	Sample Type/Method	Recorded Value(s)
Drilling Fluids	Free Oil	No free oil	Once/week(*1)XXXX when discharging	Static sheen See Part I.D.6	Number of days sheen observed
	Toxicity( <b>*2)</b> ; (*1) <b>964x 1:050</b> ;	30,000 ppm daily min 30,000 ppm monthly avg min	Once/month Once/end of well(*3) (*2) Once/month.xxx.	Grab  Grab.XXXXXXX  Grab.XXXXXXXX	96-hr LC50 96-hk LC50X 96-hk LC50X
	Discharge Rate	Maximum discharge rate of 1,000 barrels/hour	Once/hour(*1)XXXX when discharging	See Part I.D.2 Estimate	Max. hourly rate
	Discharge-Rate for sontrolled rate areas	X <b>/(*4)</b> XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<b>Onceshour(*1)</b> XXXXXXXXXXXXX	K. Measure XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXX <b>Max hourly rate</b> XX
	Mercury and cadmium in barite	No discharge. of drilling fluids to which barite has been added, if such barite contains mercury in excess of 1.0 mg/kg or cadmium in excess of 3.0 mg/kg (dry weight)	Once prior to drilling each well (*6)X (*3)	Absorption Spectrosphosometry See Part I.B.1.b	mg mercury/kg barite mg cadmium/kg barite
	Oil Based or Inverse Emulsior Drilling Fluids	n No discharge			
	Oil Contaminated Drilling Fluids	No discharge (*34) (*4)			
	Diesel Oil	No discharge of drilling fluids to which diesel oil has been added as a lubricant			
	Mineral Oil	Mineral oil may be used only as a carrier fluid, lubricity additive, or pill			
				discharges (*5); X	

### Table 1. (Continued)

				Monitoring Requirem	<u>nent</u>
	Regulated & Monitored	Discharge Limitation/	Measurement Frequency		Recorded Value(s)
Discharge	Parameter	Prohibition	Sa	mple Type/Method	
All Drill Cuttings FrsecolkXXXXXX	No free oikxxxxxx.	Xmee/week(*xxxx	StaticysheenXXXX	Number of days sheek observed	
PISO GIRALALALA	Free Oil	No free oil.	Once/week when discharging	Static Sheen See Part I.D.6	Number of Days Sheen Observed
	Toxicity(*2)\96\h\XXXXXX (*1)	No discharge of cuttings generated using drilling fluids which exhibit a toxicity of than 30,000 ppm daily min. or 30,000 ppm monthly avg. min.			
	Mercury and cadmium in barite	No discharge, if generated using drilling to which barite is added which contains mercury in excess of 1.0 mg/kg or cadmit in excess of 3.0 mg/kg			
	Cuttings generated using Oil Contaminated Drilling Fluids	No discharge			
	Cuttings generated using drilling fluids to which Diesel Oil has been added	No discharge			
	Cuttings generated using drilling fluids to which Mineral Oil has been added	Mineral oil may be used only as a carrier fluid, lubricity additive, or pill			

Table 1. (Continued)

				Monitoring Requirement		
	Regulated & Monitored	Discharge Limitation/	Measurement Frequency	Sample Type/Method		
Discharge	Parameter	Prohibition			Recorded Value(s)	
Stock Limits for Drill Cuttings Generated using Non aqueous Based Drilling Fluids	Polynuclear Aromatic Hydrocarbons (PAH)	0.00001 grams PAH per gram of base fluid	Once/year on each base fluid blend	PARYSSHIGHTSTOPPS HPLCAUX, BPAVMERSC ASSA (1866-140) CFR 1433 N 1(6) See Part I.D.10	gram PAH / gram stock base fluid )	
	Sediment Toxicity	Ratio of 10-day LC50s not to exceed 1.0(**7). (*5)	Once/year on each base fluid blend	ASTM method B1367- 99(*8): See Parts I.D.7 and I.D.9	RAGO OF XNG-XNAM XXSU  10 SKOCK BASSEXIMM XXSO  Ratio of 10-day LC50s	
	Biodegradation Rate	Ratio of cumulative gas productions <b>Riodegradation rate xation.</b> not to exceed  1.0 (*9)X (*7)	Once/year on each base fluid blend	Modified ISOX XXXXX X95  (*10)XXXXXXX  See Parts I.D.8 and I.D.9	Ratio of CV 16-CV 18 X 10 biodeg.  to stock base Anid biodeg. X Biodegradation rate ratio	
Discharge Limits for Cuttings Generated using Non aqueous Based Drilling Fluids	Sediment Toxicity	Ratio of 4-day LC50s not to exceed 1.0(**M) (*6)	<b>Once/monum*35X</b> XX (*8)	XMadifiedk <b>ASKM Method</b> BI367-99 X-12 XXXXXX See Appendix A.	Ratio of A-day LC50s	
	Formation Oil	No Discharge	Once prior to drilling	GCMS (*13)X	Pass/Fail	
			Once/week	See Part I.D.11 and Appendi	Х С.	
			Choo wook	<b>RPE (* K4)</b> See Part I.D.12	Pass/Fail	
	Base Fluids Retained on Cuttings	6.9%(EV(*KS) 9.4%(estex(*X6)X) 6.9% for drilling fluids which meet stock limitations for C16-C18 internal olefin; 9.4% for drilling fluids which meet stock limitations for C12-C14 ester or C8 ester	Once/day (*KN)X (*9)	Retort Test Method (**1.8)K See Part I.D.13	Percent retained	

Table 1. (Continued)

			Monitoring Requirement		
Discharge	Regulated & Monitored Parameter	Discharge Limitation/ Prohibition	Measurement Frequency	Sample Type/ Method	Recorded Value(s)
Deck Drainage	Free Oil	No free oil	Daily(*19)KXXXXX (*10)	<b>Visual sheen</b> See Part I.D.5	Number of days sheen observed
Produced Water	Oil and grease	42 mg/l daily max., 29 mg/l monthly avg.	Once/month	<b>%%%(*20)</b> XXX Grab/Composite (*11)	Daily max., monthly average
	Toxicity	<b>0 (*2K)</b> X (*12)	Rate Dependent (*13) <b>Twice/Xear(*28)</b> See Part I.B.4.b	Grab/Composite (*37)	See Part I.D.3
	Free Oil	Monitor	Daily (*19,*29)(*10)	Visual sheen See Part I.D.5	Number of days sheen observed
	Flow (bbl/day)	Monitor	Once/month	Estimate	Monthly Average
Produced Sand (includes propping agent). XX	No Discharge, including propp	ping agents	<b>Once/year(*37)</b> .xxx	EstimateXXXX	Highest monthly flow
Well treatment fluids, completion fluids, workover fluids (includes packer fluids); and	Free oil	No free oil	Daily(*1)XXX. when discharging	Static sheen See Part I.D.6	Number of days sheen observed
pipelina brina (*22) XX (*14)	Oil & Grease	42 mg/l daily max., 29 mg/l monthly avg.	Once/month	Grab(*29),XXX	Daily max., monthly average
	Toxicity 48 Hour Acute	<b>0 (*21)</b> K (*12)	Per Discharge	Composite	See Part I.D.4
	Toxicity 7-day NOEC	Report	Per Discharge	Grab	See Part I.D.3
facilities Sanitary waste(*24) continuously manned for 30 or more days by 10 or more persons	Residual chlorine(*25)( (*15)	1 mg/l (minimum)	Once/month	Grab	Concentration
	Solids	No Floating Solids	<b>Daily</b> (*16)	Observation(*2%) (*17)	Number of days solids observed
facilities  Sanitary waste (*24) continuously manned for thirty or more days by 9 or fewer persons or intermittently by any number	Solids	No floating solids	<b>Daily</b> (*16)	Observation(*27) (*17)	Number of days solids observed
Domestic waste(*26)	Solids	No floating solids or foam	Daily	Observation(*27) (*17)	Number of days observed

### Table 1. (Continued)

Discharge	Damilated & Manitared	Discharge Limitation/	Measurement	Monitoring Requ Sample Type/	Recorded Value(s)
Discharge	Regulated & Monitored Parameter	Prohibition	Frequency	Method	recorded value(s)
	1 manten	1 TOMOTHOM	r requeriey	141001100	
Miscellaneous discharges:	Free oil	No free oil	Daily(*23)(*19)	Visual sheen	Number of days sheen
Desalinization/unit/discharge; blowout pre-veiner			,	or Static Sheen	observed
Muld; Lincomarnimated Ballast Water; X					
uncontaminated bilge water, uncontaminated					
freshwater, mud, cuttings and cement at seafloor, uncontaminated seawater, boiler blowdown,					
source water and sand; diatomaceous earth fifter					
media: excess cement slurry; bulk pipeline brine;					
media; excess cement slurry; bulk pipeline brine; transfer powdersub sea wellhead preservation	_ (*20)				
fluids; subsea cleaning fluids; sub sea production	Toxicity	7-day NOEC < 50 mg/l	Once/Year	Grab	See Part I.D.3
control fluid; umbilical steel tube storage fluid;		(product-specific NOEC for powder			
leak tracer/fluids riser tensioner fluids: (See Part		dye)			
I.BakO for more restrictions and reporting requirements/for unused rements/for unused rem					
A A STREET HER HOLDING STREET THE THE WHITE TO SEE		(*22)			
Unused Cement Slurry					
Miscellaneous discharges of seawater and	Treatment chemicals	Most stringent of: EPA label			
freshwater to which treatment chemicals have		registration, maximum			
been added: excess seawater which pennits the		manufacturers recommended dose,			
sontineous speration of firexpotent and utility/lift		or 500 mg/l.			
pumps/excess servater from pressure/ maintenance and/secondary recovery projects,					
water released during training of personnel in fire	Flow Volume.	Monitor	Once/month	Estimate	Monthly Average
protection/ seawater/used to pressure test/new and					
existing piping and pipelines, ballast water, once-	Free oil	No free oil	Once/week.xx	Visual Sheen	Number of days sheen
through non-contact cooling water, water used as			Daily	<b>(*32)</b> X (*23) or Static Sheen	observed
publing or equiptment preservation fluids, water used during Dual Gradient Drilling	Toxicity	<b>0 (*30)</b> X (*24)	Rate Dependent	Grab	See Part I.D.4
XXXXXXXXXXXXXXXXXXXXXXXX		- franklir ( 121)	( <b>*31)</b> See Part I.B.11.b		The state of the s
Hydrate Control Fluids (if discharge alone)	Toxicity(*33)	7-day NOEC (Provincerspectation	Once/year	Grab	See Part I.D.% 3
•	(*21)	NOEC)X	-		
		pontonal notal por a post popular production of the contract o	X		
4	Free Oil	No Free Oil.	Daily	Visual Sheen or	
	Oil & Grease	29 mg/l maximum		plying as preservation	on fluids
	Priority Pollutants	No content except in trace amoun			0 5 4750
,	Toxicity	7-day NOEC	Per Discharge		See Part I.D.3
		(or 48-hour if duration of total disc is a shorter period of duration)	enarge		
		is a shorier period of duration l			

### Agenda Item 08- Permit Summary Table

Table 1 (Continued)

Tuoto I (Continuou)				Monitoring Requirem	<u>ent</u>
	Regulated & Monitored	Discharge Limitation/	Measurement	Sample Type/Method	
<u>Discharge</u>	<u>Parameter</u>	<u>Prohibition</u>	Frequency		Recorded Value(s)
Cooling Water Intake Structure					
<b>55</b>		Maximum not to exceed			
Non-Fixed and Fixed with Sea Chest	Intake Screen Velocity	0.5 ft/sec	Continuous	Measuring Device	Maximum value
	Visual/remote Inspection	<b>Report</b> (*25)	X8E*htnoxt/sanQ	Observation	Fish number
	Visual fornote hispothon	report ( 55)	Once every 6 months	Observation	i ish humoo
		Maximum not to exceed			
Fixed without Sea Chest	Intake Screen Velocity	0.5 ft/sec	Continuous	Measuring Device	Maximum value
	Visual/remote Inspection	<b>Report</b> (*25)	Once/month(*38). Once every 6 months	Observation	Fish number
	Entrainment Study/Sampling (*26)		Dependent on the depth of the intake structure	24-hour entrainment samples from water withdrawn at all CWISs	Entrainment per sample ever Total annual entrainment

#### Footnotes

#### MXXXWhen discharging X

- \*1 **XX**X Suspended particulate phase (SPP) with Americanysis bahia (formerly Mysidopsis bahia as referred to in Method 2007.0 and 1007.0, and DMRs) following approved test method. The sample shall be taken beneath the shale shaker; or if there are no returns across the shaker then the sample must be taken from a location that is characteristic of the overall mud system to be discharged.
- \*2 **XX**X Sample shall be taken after the final log run is completed and prior to bulk discharge.

MAXXX Sex Mart XBL NovaX this overwith.X

\*5XXXX See Mart XBX Na/oRthis/nxr/nixX

- Analyses shall be conducted on each new stock of barite used. If more than one well is being drilled at a site, new analyses are not required for subsequent wells, \*6XX provided that no new supplies of barite have been received since the previous analysis.
- \*5 XXX TREVINIONOF THE MEGAN AND IN IN KINE ACCUMULATION OF THE ACCUMULATION OF THE TRANSPORT OF T The ratio of the 10-day LC50 of C16-C18 internal olefin or C12-C14 or C8 ester reference fluid divided by the 10-day LC50 sediment toxicity \*8XXXXX865.P34XXDXX test with Leptocheirus plumulosus of the base fluid shall not exceed 1.0.
- The ratio of the remulative gas production (ml) of C16% XV8 internal olefin divided by the cumulanve gas production (ml) afrock base fluid, both at 275X \*7 X**%**9K TAYK SKANKNOK SXC PAN X BYZXX KOPINIX SECOND. The ratio of the cumulative gas production (ml) of C16 - C18 internal olefin or C12-C14 or C8 ester reference fluid divided by the cumulative gas production (ml) of stock base fluid, both at 275 days, shall not exceed 1.0. See Part I.B.2.c.1 of this permit.

\*MOXXX See Park KD 8 of this permit X

- The rank of the 4-day EC50 of C16 X X 18 internal slefin divided by the 4-day I E 30 of the base fluid shall dokexceed NX See Part IX 2 2 8 this permit \*6 XXX The ratio of the 4-day LC50 of C16 - C18 internal olefin reference drilling fluid divided by the 4-day LC50 of the drilling fluids, removed from cuttings at the solids control equipment, shall not exceed 1.0.

  - \*XXXXXSex: AppendixXXof 40 CFR/Part 43 \$, Subpart A and Part VD. X N and Appendix C of this permix X

\*N4XXXXee Section KDX2 of this pennik XX

\*IVXXXXS&&AppendixXXXof4his bermitXX

- \*USXXXXDtHUNDQYTHUNDs WHICH YHOOCK THE SUBCKYUNHUNGYGHYCHS YCK CSYCK BY CSK ESYCY.
- Monitoring shall be performed at least once per month on drilling fluids which meet the stock limitations for a C16-C18 internal olefin. For drilling fluids which meet stock limitations for C12-C14 ester or C8 ester, monitoring shall be performed at least once per well at the end of drilling with nonaqueous based drilling
- **\*\*\***\*\* Except when meeting the conditions for the Best Management Practices described in Part I.B.2.c of this permit. Operators conducting fast drilling shall collect and analyze samples once per 500 feet or a maximum of three per day.

\*M8XXX Sec Part ND. 13 of this person XX

- \*10 X\*XX When discharging and facility is manned. Monitoring shall be accomplished during times when observation of a visual sheen on the surface of the receiving water is possible in the vicinity of the discharge.
- \*11 \*220X May be based on either a grab sample or a composite which consists of the arithmetic average of the results of grab samples collected at even intervals during a period of 24-hours or less. (Example: If four samples are collected within a 24-hour period, samples must be 6 hours apart)

- \*12 \*XXIX See Appendix D, Table 1 of this permit for critical dilutions. A permittee is in compliance with the WET limit when the NOEC is equal to or greater than the permittee's critical dilution, and this is reported as a "0" in the DMR. A WET violation happens when the NOEC is less than the permittee's critical dilution, and this is reported as "1" in the DMR.
- No discharge of priority pollutants except in trace amounts. Information on the specific chemical composition shall be recorded but not reported unless requested by EPA.
- When discharging for muds, cuttings, and cement at the seafloor, blowout preventer fluid, subsea cleaning fluids, sub sea wellhead preservation fluids, subsea production control fluid, umbilical steel tube storage fluid, leak tracer fluid, and riser tensioner fluids. All other miscellaneous discharges: when discharging, discharge is authorized only during times when visual sheen observation is possible, unless the static sheen method is used. Uncontaminated seawater uncontaminated freshwater, source water and source sand, uncontaminated bilge water, and uncontaminated ballast water from platforms on automatic purge systems may be discharged without monitoring from platforms which are not manned.
- \*16 X\*24 Any facility operator which properly operates and maintains a marine sanitation device (MSD) that complies with pollution control standards and regulations under section 312 of the Act shall be deemed to be in compliance with permit limitations for sanitary waste. The MSD shall be tested yearly for proper operation, and test results maintained at the facility.
- \*15 X\*25 Hach method CN-66 DPD approved. Minimum of 1 mg/l and maintained as close to this concentration as possible.
- \*18 \*26X The discharge of food waste is prohibited within 12 nautical miles from nearest land. Comminuted food waste able to pass through a 25 mm mesh screen (approximately 1 inch) may be discharged more than 12 nautical miles from nearest land.
- Monitoring shall be accomplished during daylight by visual observation of the surface of the receiving water in the vicinity of sanitary and domestic waste outfalls. Observations shall be made following either the morning or midday meals at a time of maximum estimated discharge.

\*28\XXXDwice\pek ealendar\yearx Tests\musx be\at least\90\days\apart.

#### \*29XXXXSee Part I.BXAXX of this permit X

\*24 \*30X See Appendix D, Table 2 of this permit for critical dilutions. A permittee is in compliance with the WET limit when the NOEC is equal to or greater than the permittee's critical dilution, and this is reported as a "0" in the DMR. A WET violation happens when the NOEC is less than the permittee's critical dilution, and this is reported as "1" in the DMR.

#### \*31XXX See Part/DB: KNb: of this neurity

- \*23 \*32X Monitoring for free oil on discharges from existing piping and existing pipelines shall be performed at least three times per discharge as follows: 1) within thirty minutes after commencement of discharge; 2) at the estimated middle of the discharge; and 3) within fifteen minutes before or after the discharge has ceased.
- \*21 XXX Toxicity test is waived if the discharge of methanol is less than 20 bbl within a 7-day period or the discharge of ethylene glycol is less than 200 bbl within a 7-day period.
- \*4 \*XX The discharge of drilling fluids which contain waste engine oil, cooling oil, gear oil or any lubricants which have been previously used for purposes other than borehole lubrication, is prohibited.

- \*8 \*35X Fox Milling fluids which meet stock himitations for CX2-CX4 esteron CS esteronizationing shall be performed at least once per month on drilling fluids which meet stock himitations for CX2-CX4 esteron CS esteronizationing shall be performed at least once per month on drilling fluids which m
  - \*36XXXXXXMinimin of thee (3) samples shall be collected as grabs of composites.X

Monitoring shall be performed at least once per month on drilling fluids which meet the stock limitations for a C16-C18 internal olefin. For drilling fluids which meet stock limitations for C12-C14 ester or C8 ester, monitoring shall be performed at least once per well at the end of drilling with nonaqueous based drilling fluids.

- \*13 XXX Highest proutbly/flow/shall be reported in the month of December. At the end of each calendar year (December), the highest estimated monthly flow rate recorded during the previous 12 months will be used to determine the frequency of toxicity testing for the following calendar year.
- \*25 \*38 Number of fish/shellfish impinged and estimated screen area blockage for each screen for months when inspections are conducted.
  - \*26 The permittees who completed or participated in the previous "Gulf of Mexico Cooling Water Intake Structure Entrainment Monitoring Study" or have performed entrainment monitoring for two years, may submit Southeast Area Monitoring and Assessment Program (SEAMAP) data, instead.
  - \*20 Fluids which are used as subsea wellhead preservation fluids, subsea production control fluids, umbilical steel tube storage fluids, leak tracer fluids made without powder dye, and riser tensioning fluids shall have a 7-day No Observable Effect Concentration (NOEC) of no less than 50 mg/l prior to the discharge. For leak tracer fluid made from powder dye, the maximum concentration to be discharged shall be no greater than is the 7-day NOEC for that specific powder dye; the 50 mg/l NOEC limit rule does not apply to leak tracer fluid made from powder dye.
  - \*22 Discharges of unused cement slurry due to equipment failure during the cementing job are limited to once per calendar year per facility. Discharges of unused cement slurry due to off-specification during the cementing job are limited to one discharge per well.